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UNDERGROUND STORAGE TANK CLOSURE FLOWERS STORE ON NC HIGHWAY 42 EAST CLAYTON, NORTH CAROLINA



Underground Storage Tank Closure Flowers Store on NC Highway 42 East Clayton, North Carolina

For Mr. Tommy Thompson Action Oil Equipment Company Zebulon, North Carolina

By
Froehling & Robertson, Inc.
Raleigh, North Carolina

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FROEHLING & ROBERTSON, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES "OVER ONE HUNDRED YEARS OF SERVICE"

P. O. Box 2551, Raleigh, NC 27602

Telephone: (919) 828-3441 FAX No.: (919) 828-5751

September 29, 1994

Mr. Tommy Thompson Action Oil Company Route 1, Box 280D Zebulon, North Carolina 27597

Re: Underground Storage Tank Closure

Flowers Store on N.C. 42 East

Clayton, North Carolina

Dear Mr. Thompson:

Froehling & Robertson, Inc. (F&R) is pleased to submit the results of the underground storage tank (UST) closure performed at the above referenced site on August 29, 1994. Froehling & Robertson, Inc. served as the environmental consultant for this project under direct contract with Action Oil Equipment Company (Action Oil).

1.0 PROJECT INFORMATION

The project site is located on N.C. 42 three miles east of Clayton, North Carolina (see Drawing No. 1 in Appendix A). The three USTs at this site were removed by Action Oil Company of Zebulon, North Carolina. The regional Division of Environmental Management (DEM) office was notified of the removal by the DFR in accordance with DEM Form GW/UST-3.

The USTs at this site are registered as a 8,000 gallon UST (UST No. 1, gasoline: unknown installation date), a 1,000 gallon UST (UST No. 2, kerosene/diesel; unknown installation date) and a 6,000 gallon UST (UST No. 3, diesel; unknown installation date).

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524 TELEPHONE (804) 264-2701 • FAX (804) 264-1202

BRANCHES:

ASHEVILLE, NC • BALTIMORE, MD • CHARLOTTE, NC • CHESAPEAKE, VA CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA GREENVILLE, SC • RALEIGH, NC • ROANOKE, VA • STERLING, VA



2

The UST locations are presented on Drawings No. 3 and No. 4 which are located in Appendix A of this report. The USTs had been temporarily closed for some time and all product was removed from the tank at that time, with the exception of UST-3 which contained approximately 2,000 gallons of diesel fuel. Action Oil removed the fuel and transported the diesel fuel to Noble Oil for disposal. The fuel dispensers and concrete dispenser pad also had not been removed. The end of each UST was within about 5 to 8 feet of the dispenser pad.

Public water is not available to the surrounding area. The area within 1,500 feet of the site is sparsely populated. There are four (4) residences within 1500 feet of the site. None of the residents in the surrounding area reported a petroleum taste or odor in their well water.

2.0 CLOSURE ACTIVITIES

The USTs were removed on August 29 and 30, 1994. The North Carolina Division of Environmental Management (DEM) was notified by the Action oil prior to removal of the UST. The local fire marshall was contacted and informed of the planned UST removal. All of the UST closure activities were performed in general accordance with the DEM guidelines for permanent UST closure (15A NCAC 2N .0801 to .0805), the activities required by DEM Form GW/UST-2, the American Petroleum Institute (API) Publications 1604 and 2015 and the National Institute for Occupational Safety and Health (NIOSH) publication "Criteria for a Recommended Standard: Working in Confined Spaces". The UST removal and disposal was performed by Action Oil. An OSHA Health and Safety trained geologist and/or environmental technician from F&R was on-site at all times of the removal process to document and verify the closure activities.

The USTs had been temporarily closed for some time and were empty of free product at the time of the removal activities, except for UST-3 which contained approximately 2,000 gallons of diesel fuel. Action Oil pumped the diesel fuel into a holding tank and transported it to Noble Oil.





Initially, a hole was excavated down to the top of the USTs and the vent and fill pipes were removed. The USTs were then purged with compressed air to remove explosive vapors. After each UST had been purged, it was removed and a hole was cut into the end such that all of the sludge could be removed. Each UST was inspected by F&R. There was no evidence of holes or leaks in the USTs or product piping. Some severe pitting was present. After the USTs were accessed and the sludge was removed, the USTs were cut into pieces, loaded on a dump truck and hauled to K & L Scrap Metal Company in Raleigh, NC for disposal (see Tank Removal/Disposal Certificate in Appendix B).

During the excavation the soil samples were scanned with a HNU photoionization detector (PID) unit. The PID scans were performed to help detect the presents of organic vapors in the soil samples. Soil samples from the excavation were placed in glass jars which were tightly covered with foil. The tip of the PID was inserted through the foil into each jar and the total volatile organic concentrations were measured in parts per million.

Soil samples were collected by F&R in accordance with current DEM protocol. The soil samples were obtained from the backhoe bucket using a stainless steel scoop. The scoop was cleaned in a soap solution and double rinsed between each sample. All of the soil samples were immediately placed in pre-cleaned glass jars with vapor/fluid tight teflon lids. The jars were completely filled before capping.

All of the samples were stored on ice in a cooler and shipped overnight to the chemical analysis laboratory. EPA recommended chain-of-custody procedures were maintained throughout the sampling and analysis program.

2.1 UST REMOVAL



The USTs were removed without major problems. Approximately 24 inches of earth was encountered over each of the USTs. The soils within the UST excavation consisted if reddish-tan and red clayey silts. Groundwater was not encountered in any of the UST excavations.

There was no olfactory evidence of soil contamination above or around the USTs. A mild odor was noted along the bottom of the 1,000 gallon kerosene/diesel UST (UST-2). The PID readings were on the order of 200 ppm which closely approximates the SSE action level. A Site Sensitivity Evaluation (SSE) was performed at this site. A cleanup level of 160 ppm for diesel was determined.

There was no visual evidence of leaks or holes on any of the USTs. Some severe pitting was noted. The product piping connections appeared to be in good condition and there was no evidence of staining or odors around the piping/UST connections.

Two soil samples were obtained at depths of 1.5 to 2 feet below each UST for chemical analysis in accordance with DEM protocol. The analytical chemical test results appear in Appendix C. The soil sample locations are shown on Drawing No. 4 in Appendix A. A summary of the field and laboratory results is as follows:

UST 1 - 8,000 GALLON GASOLINE											
Lab Field Sample Sample		Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)					
S-1	UST1-1	North	12'	0	<5	-					
S-2	UST1-2	Center	12'	0	<5	8					
S-3	UST1-3	South	12'	0	< 5	_					



	UST 2 - 1,000 GALLON KEROSENE/DIESEL											
Lab Sample	Field Sample	Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)						
S-4	UST2-1	West	8'	50	567	11,100						
S-5	UST2-2	East	8'	200	2,900	17,800*						

^{*} Lab re-tested sample, result was 11,000 ppm.

	UST 3 - 6,000 GALLON DIESEL											
Lab Sample	Field Sample	Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)						
S-6	UST3-1	North	10'	2.4	<5	18						
S-7	UST3-2	Center	10'	7.2	<5	21						
S-8	UST3-3	South	10'	113	<5	90						

2.2 <u>DISPENSER ISLAND/PRODUCT PIPING</u>

As previously noted, the dispenser island had not been removed prior to the UST removal activities. Two samples were obtained beneath the three dispensers which were all located on the same dispenser island. The PID and analytical chemical results are as follows:

	DISPENSER ISLAND											
Lab Field Sample Sample		Location	Location Depth		TPH Method 5030 (ppm)	TPH Method 3550 (ppm)						
S-9	Gas-1	Center	2'	0	<5	-						
S-10	Gas-2	Center	2'	16	<5	-						
S-11 Diesel		Center	2'	2	<5	<8						



Since the dispensers were located within 5 to 8 feet of the USTs soil samples were not obtained for analytical testing on the product piping. F&R inspected the area around the product piping. There was no evidence of petroleum odors or leaks.

3.0 <u>CONCLUSIONS</u>

Based on F&R's observations and documentation of the UST closure activities, it is our opinion that the closure activities were performed in substantial accordance with DEM, API and NIOSH guidelines. DEM Form GW/UST-2 has been completed and is included with this report in Appendix B.

Although there was no obvious evidence of contamination in the field, the analytical chemical test data indicated a number of elevated TPH-High boiling point (diesel) measurements. Since these measurements were above the minimum DEM action levels (10 ppm-gasoline, 40 ppm-diesel), a site sensitivity analysis was performed. The site sensitivity analysis (included in Appendix D) indicated an action level of 160 ppm for diesel soil contamination, respectively for this site. Based on this criteria, two of the analytical chemical results are above the DEM action level.

It is our conclusion that a leak has occurred from UST-2. We recommend that the contaminated soil above the SSE action level should be removed and transported to a DEM approved facility. Further action with respect to UST-1 and UST-3 is not recommended.

4.0 LIMITATIONS

This report has been prepared for the exclusive use of the North Carolina Division of Forest Resources and/or their assignees. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. This report should not be construed in any way to indicate F&R's recommendation to either purchase, sell or develop the project site. F&R by virtue of providing the services described in this report,



does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety or the environment.

F&R appreciates the opportunity to have served you as your environmental consultant on this project. If you have any questions regarding this report or if we can be of further assistance to you, please do not hesitate to contact us.

Very truly yours,

FROEHLING & ROBERTSON, INC.

Michael J. Burns Staff Geologist

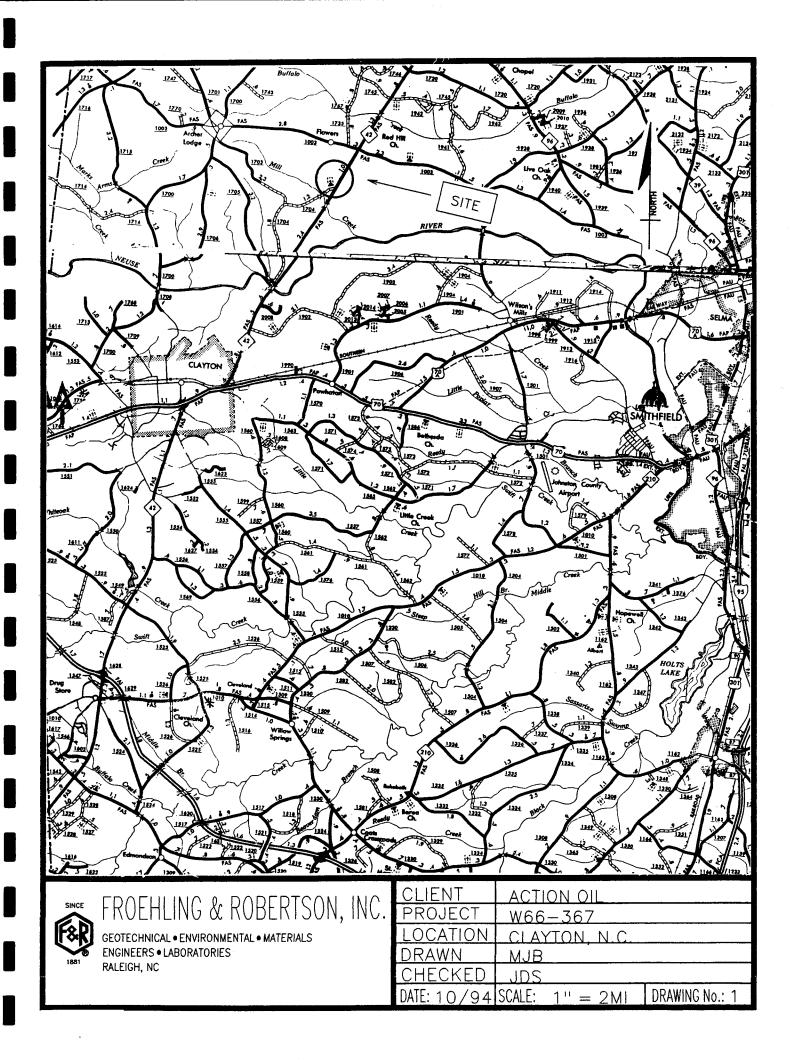
J.D. Solomon, P.E.

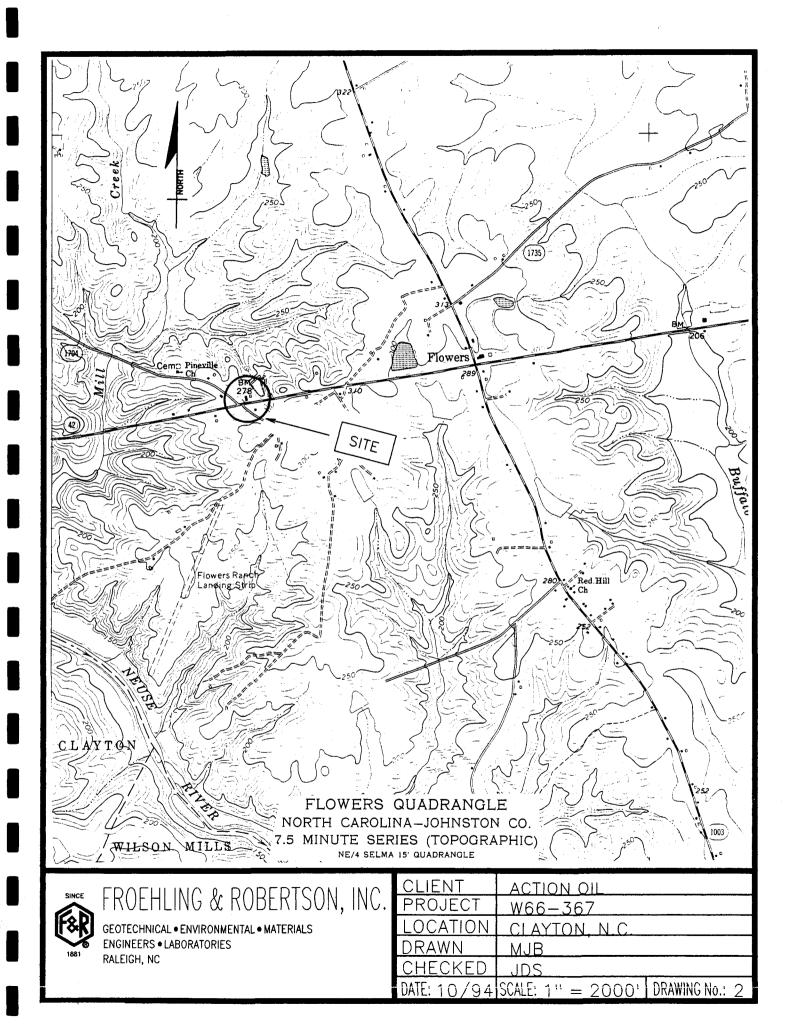
Project Manager

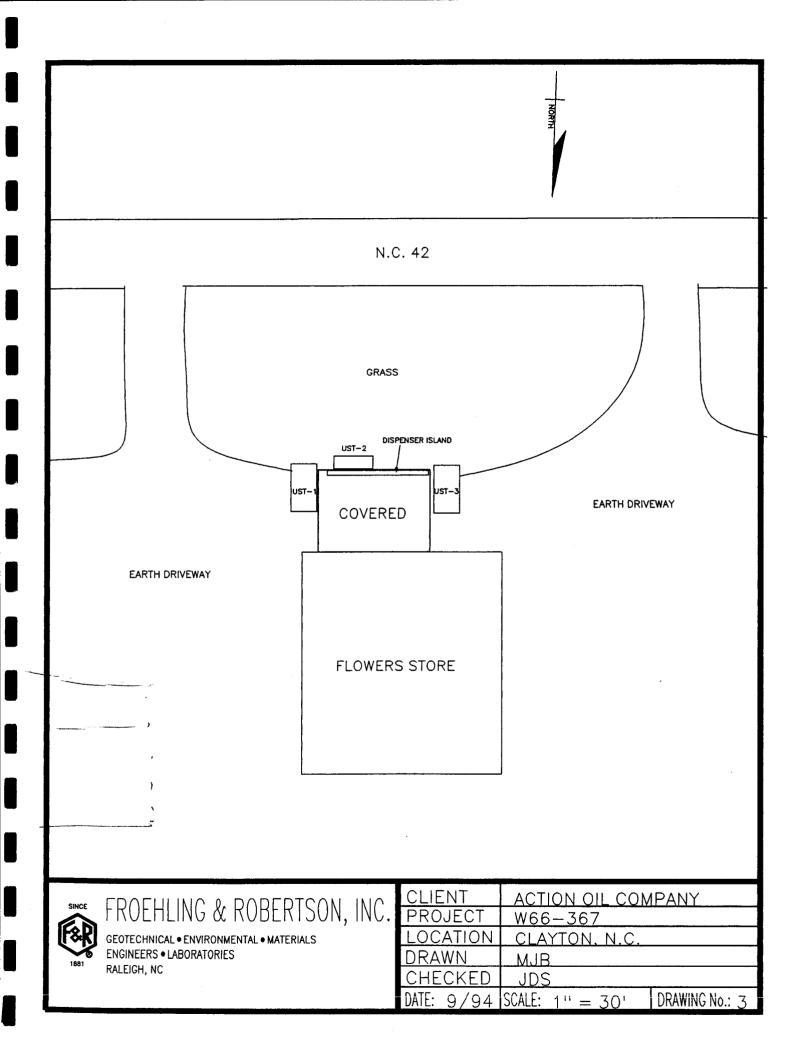
MJB/JDS:mc

APPENDIX A

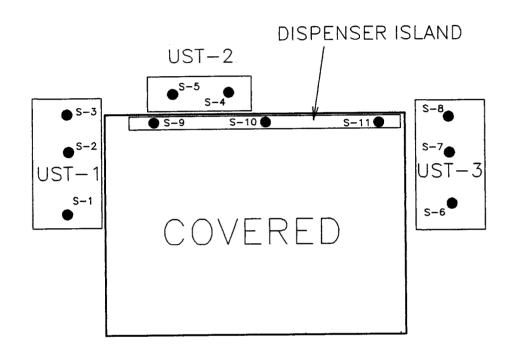
DRAWINGS







NORTH





FROEHLING & ROBERTSON, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES RALEIGH, NC

CLIENT	ACTION OIL COMPANY
PROJECT	W66-367
LOCATION	CLAYTON, N.C.
DRAWN	MJB
CHECKED	JDS
DATE: 9/94	SCALE: $1'' = 20'$ DRAWING No.: 4

APPENDIX B

TANK DISPOSAL CERTIFICATE AND DEM FORM GW/UST-2



TANK DISPOSAL CERTIFICATE

OWNER'S NAME: Mrs	Gladys Flowers Simmy Flowers Stay 42 Clay hn	Stare	
QUANTITY	<u>zi</u> xie	CONTENTS	
2	8,000 gal 1,000 gal	lon gas Um Ciesel	7
*** * * * * * * * * * * * * * * * * *			
TANK(S) DISPOSED OF A	r: KL Scra	Meful ction Oil Equipment	Officer

011	(/IOT-0-	-01	Investigation Day		or Do		ont-6	leevve	on Ob	ones in Comiss of U.C.T.		
F(TAI I	NKS Th N [SI	turn Completed For e appropriate DEM F		to the c	county o	of the fa	cility's l	ocation.	State Use Only I.D. Number Date Received			
IV	C	, , , , , , , , , , , , , , , , , , , ,		INST	RUCTIC	NS						
			Complete and return within				oletion of	site inves	tigation.			
		. Ownership of Tan	k(s)					11. 1	Location	of Tank(s)		
Owne	r Name:	Mrs. Gladys F	lowers			Facili	ty Name	; F1c	owers :	Store		
Corpora		ublic Agency, or Other Entity) NC Highway 42			· -	(or Con	npany)	f available):			
Count		Johnston			` ⁻		t Addres	N.C	Highw	ay 42		
City:	Clayto	n _{State:} NC	Zip Code: 2752	0		(or Stat	e Road) ty: Jo	hnstor	ı City	y:Clayton Zip Code: 27520		
Telepl	one Number	:()			_	Telep	hone Nu	-				
		(Area Code)		III. Co	ntact P	Parson		(Ai	rea Code)			
		The same story	Job Title: (i 1			Tel. No. : (919) 365-3746		
Name:		ny Thompson						ahulan	NC	Tel. No. (919) 365-3746		
		Tommy Thompson						leigh		Tel. No. (919) 828-3441		
	/ Consultant:	Froehling & R						leigh		Tel. No. (919) 828-3441		
Lab:		Froehling & R V. U.S.T. Information		310			n Cond		NO	VI. Additional Information Required		
Tank	Size in	Tank	Last		ater in avation	Fre Prod			Odor or Contamination	Soo royarsa sida af piak cany		
No.	Gallons	Dimensions	Contents	Yes	No	Yes	No	Yes	No	(owner's copy) for additional		
1	8,000	8' ø x 22'	Gasoline		х		х		х	information required by N.C DEM in the written report and sketch.		
2	1,000	4' 6 x 12'	Diesel/Kerosene		x		x	х		NOTE: The site assessment portion		
3	6,000	8' ø x 15'	Diesel		x		x		x	of the tank closure must be con- ducted under the supervision of a		
										Professional Engineer or Licensed Geologist. After Jan.1, 1994, all		
					 					closure site assessment reports		
										must be signed and sealed by a P.E. or L.G.		
			VII. Check List	Chor	k tha s	ctivitio	e comr	oleted)				
					K lile a	Cuville	s comp	neted)				
X X X	Contact loc Notify DEM Drain & flui Remove al Excavate c Clean and Remove di	cal fire marshal. I Regional Office before sh piping into tank. I product and residuals lown to tank. inspect tank. cop tube, fill pipe, gauge	from tank. pipe, vapor recovery tank co		ons,	AI L	Fill Plu	g or cap al connect ar	material ov Il openings nd cap or r	verflows tank opening. s. remove vent line. d - specify:		
<u>x</u>	submersible pumps and other tank fixtures. Cap or plug all lines except the vent and fill lines. Purge tank of all product & flammable vapors. Cut one or more large holes in the tanks. Backfill the area. Date Tank(s) Permanently closed: 8/29/94 REMOVAL Create vent hole. Label tank. Dispose of tank in approved manner. Final tank destination: Scrap -											
	Date of Ch	nange-in-Service:						K & L	Scrap	Metal		
docur subm	nents, and itted inforn	that based on my nation is true, accu	have personally examininguity of those individuate, and complete. er's authorized representative	ned an uals im	d am f	amiliar	with the	ne inform	nation subtaining	ubmitted in this and all attached the information, I believe that the		
J	. D. So	lomon, P.E., P	roject Manager			///	A	J. X.	u	- 9/30/94		
GW/U	ST-2 (Rev	·.12/01/93)	White Copy	y - Regio	onal Offi	d e	Ye	llow Capy	- Central	Office Pink Copy - Owner		

APPENDIX C

CHEMICAL ANALYSIS RESULTS



FROEHLING & ROBERTSON, INC.

GEOTECHNICAL . ENVIRONMENTAL . MATERIALS **ENGINEERS • LABORATORIES** "OVER ONE HUNDRED YEARS OF SERVICE"

CERTIFICATE OF ANALYSIS

September 19, 1994

Page 1 of 1

LAB #: **CLIENT:** 9409027 F&R Raleigh

Attn: J.D. Solomon

PROJECT:

Action Oil-Jimmy Flowers

PROJECT #:

W66-367

SAMPLE COLLECTOR:

C. Seabright, M. Burns

LAB RECEIPT:

9/03/94, 1445

PARAMETER

ANALYSIS DATE/TIME

METHOD

ANALYST

TPH-GC Low BP TPH-GC High BP

9/08/94,1052 9/09/94,1349 SW846/5030/8015 CAL/SW846/8015M KR/IS KR

RESULTS:

F&R #:	SAMPLE ID:	TYPE:	DATE/TIME:	TPH-GC Low BP:	TPH-GC High BP:
9409027-01 9409027-02 9409027-03 9409027-04 9409027-05 9409027-07 9409027-09 9409027-09 9409027-10	UST-1,N UST-1,C UST-1,S UST-2,W UST-2,E UST-3,N UST-3,C UST-3,S Gas-1,Pump Is. Gas-2,Pump Is. Diesel,Pump Is.	Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab Soil/Grab	8/29/94,1150 8/29/94,1200 8/29/94,1210 8/29/94,1325 8/29/94,1330 8/30/94,1010 8/30/94,1012 8/30/94,1033 8/30/94,1035 8/30/94,1035 8/30/94,1030	BDL BDL 567 mg/kg 2,900 mg/kg BDL BDL BDL BDL BDL BDL BDL BDL BDL	11,100 mg/kg 17,800 mg/kg 18 mg/kg 21 mg/kg 90 mg/kg
			Det'n Limit:	5 mg/kg	8 mg/kg

Soil results are reported on dry weight basis unless otherwise noted.

* 9409027-05 TPH HBP Rerun 9/15/94, 0740, Result 11,000 mg/kg.

mg/kg: Milligram per kilogram

BDL: Below detection limit

Audrey N. Brubeck **Laboratory Supervisor**

AB/cb

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524

TELEPHONE (804) 264-2701 • FAX (804) 264-1202

BRANCHES:

ASHEVILLE, NC . BALTIMORE, MD . CHARLOTTE, NC . CHESAPEAKE, VA CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA GREENVILLE, SC . RALEIGH, NC . ROANOKE, VA . STERLING, VA

CHAIN OF CUSTODY RECORD
Please Print - CLIENT NAME ACTION / F.P. Policish
ADDRESS

FROEHLING & ROBERTSON, INC.
P.O. BOX 27524
RICHMOND, VIRGINIA 23261
TEL:(804) 264-2701
FAX: (804) 264-1202

PHONE/FAX (919) 828 - 3441

APPENDIX D
SITE SENSITIVITY EVALUATION

TABLE 3

SSE SITE CATEGORY DESCRIPTIONS

CATEGORY A (Site meets any one of the criteria)

- 1. Water supply well(s) contaminated and not served by accessible public water supply.
- 2. Vapors present in confined areas at explosive or health concern levels.
- 3. Treated surface water supply in violation of the safe drinking water standards.

CATEGORY B (Site meets any one of the criteria)

- 1. Water supply well(s) contaminated, but served by accessible public water supply.
- 2. Water supply well(s) within 1500 feet of site, but not contaminated and not served by accessible public water supply.
- 3. Vapors present in confined areas but not at explosive or health concern levels.

CATEGORY C (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated.
- 2. Water supply well(s) greater than 1500 feet from site but not served by accessible public water supply.

<u>CATEGORY D</u> (Site meets <u>both</u> of the criteria)

- 1. No known water supply well(s) contaminated.
- 2. Water supply well(s) within 1500 feet of site but served by accessible public water supply.

CATEGORY E (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated or within 1500 feet of site.
- 2. Area served by accessible public water supply.

3/10/93

Table 1

Site Sensitivity Evaluation (SSE)

Site Characteristics Evaluation (Step 1)

Characteristic	Condition	Rating	
Grain Size*	Gravel Sand Silt Clay	150 100 50 0	
Are relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soils"?	Present and intersecting the water table. Present but <u>not</u> intersecting the water table.	10 5	50
Distance from location of deepest contaminated soil** to water table.	None present. 0 -5 feet (C, D & E sites only) 5 - 10 feet >10 - 40 feet	20 20 10 0	\$ 10
Is the top of bedrock or transmissive indurated sediments located above the water table?	> 40 feet Yes No	20 0	20
Artificial conduits present within the zone of contamination.	Present and intersecting the water table. Present but <u>not</u> intersecting the water table. Not present.	10 5 0	10

Total Site Characteristics Score:

ILC

^{*} **Predominant** grain size based on Unified Soil Classification System or U.S. Dept. of Agriculture's Soil Classification Method.

^{** (&}gt;10 ppm TPFH by Method 5030; >40 ppm TPFH by Method 3550; >250 ppm O&G by Method 9071)

Site Sensitivity Evaluation (SSE)

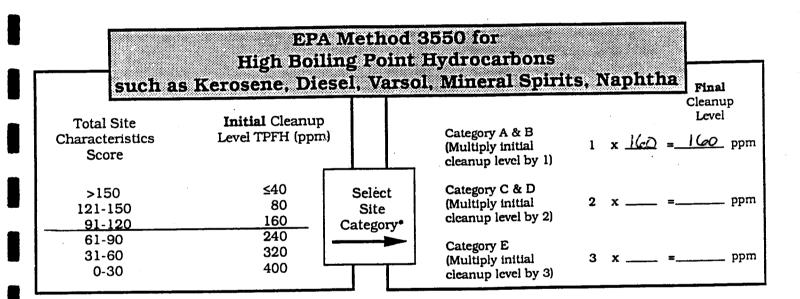
Final Cleanup Level

Initial Cleanup Level (Step 3) (Step 2) EPA Method 5030 for Low Boiling Point Hydrocarbons such as Gasoline, Aviation Fuels, Gasohol Final Cleanup Level Initial Cleanup **Total Site** Category A & B $1 \times 40 = 40$ ppm Level TPFH (ppm) Characteristics (Multiply initial cleanup level by 1) Score Category C & D ≤10 >150 Select (Multiply initial 20 121-150 Site cleanup level by 2) 91-120 40 Category* 60 61-90 Category E 80 _ ppm 31-60 (Multiply initial

100

0-30

cleanup level by 3)



such a	Heavy Fuel	Method 9 ls - Oil & (#5, #6, Mo	071 for Grease (O&G) stor Oil, Hydrau	lic Fluid	Final Cleanup
Total Site Characteristics Score	Initial Cleanup Level O&G (ppm)		Category A & B (Multiply initial cleanup level by 1)	1 x =	Level ppm
>150 121-150 91-120	≤250 400 550	Select Site Category*	Category C & D (Multiply initial cleanup level by 2)	2 x =	ppm
61-90 31-60 0-30	700 850 1000		Category E (Multiply initial cleanup level by 3)	3 x :	ppn

^{*} See Site Category Descriptions, Table 3 3/10/93

Agra Environmental

P.O. BOX 5611 CARY, NC 27512 TEL: (919) 858-5350 FAX: (919) 858-5351

revend 9-12-06

UST CLOSURE REPORT

(GW/UST-12)

Flowers Store 4181 NC Hwy 42 E Clayton, Johnston County, North Carolina 27527

UNDERGROUND STORAGE TANK CLOSURE REPORT

The closure report should contain, at a minimum, the following information. Any other information that is pertinent to the site should be included.

I. General Information

- A. Ownership of UST(s)
 - 1. Name of UST owner:

Mr. David Milton Flowers

2. Owner address and telephone number:

4181 NC Hwy 42 E Clayton, Johnston County, North Carolina 27527 Phone No. (919) 553-4044

- B. Facility Information
 - 1. Facility name:

Flowers Store

2. Incident #:

17217

3. Facility address, telephone number and county:

4181 NC Hwy 42 E

Clayton, Johnston County, North Carolina 27527

- C. Contacts
 - 1. Name, address and telephone number of closure contractor:

ECS, LLC

Post Office Box 5611

Cary, Wake County, North Carolina 27512

Phone No. (919) 622-1164

3. Name, address and telephone number of primary consultant:

Agra Environmental, Inc.

539 Keisler Drive, Suite 104

Cary, Wake County, North Carolina 27512

Phone No. (919) 858-5350

4. Name, address, telephone number, and State certification number of laboratory:

Analytics Corporation

8040 Villa Park Drive, Suite 250

Richmond, Virginia 23228

Phone No. (804) 264-7100

Drinking Water ID: 37715

D. UST Information

Tank	Estimated	Size in	Tank	Last	Previous	Tank Owner
no.	Age	Gallons	Dimensions	Contents	Contents	
	(years)					•
1	Unknown	1,000	46" X 12"	Gasoline	N/A	Flowers Store

E. Site Characteristics

1. Describe any past releases at this site:

Froehling and Robertson, Inc removed three tanks from the site in September of 1994. One 8,000-gallon gasoline tank, one 1,000-gallon Kerosene/diesel tank, and one 6,000 gallon gasoline tank were removed at that time. Soil contamination was found at the time of removal. The site was assigned GW Incident # 17217. No contaminated soil was removed from the site.

2. Is the facility active or inactive at this time? If the facility is inactive note the last time the USTs were in operation:

The facility was inactive prior to closure. The UST has been out of operation since 1994.

- 3. Describe surrounding property use (for example, residential, commercial, farming, etc.)
 Rural residential and agricultural.
- 4. Describe site geology/hydrogeology

 Costal Plane Red-Buff, mg fg

Costal Plane - Red-Buff, mg - fg sandy clay. The site has moderate topographic relief (Figure 1). Surface drainage on the site is to the north-northwest.

5. Describe results of receptor survey

The area is served by a <u>public water supply</u>. There are potential groundwater supply wells within 1,000 feet of the <u>subject site</u>.

II. Closure Procedures

A. Note the amount of residual material pumped from the tank(s):

No residual material was removed from the tank.

B. Describe the storage, sampling and disposal of the residual material:

No residual material was removed from the tank.

C. Excavation

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" on limiting excavations. The Trust Fund will not pay for excessive excavation unless it is justified and verified by laboratory results.

1. Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping and/or pumps:

The tank excavation was just large enough to remove the tank. Soils appeared to be free of contamination at the time of closure.

2. Note the depth of tank burial(s) (from land surface to top of tank):

The tank was buried approximately 2.0 feet below land surface.

3. Describe the condition of the UST system:

No Pitting or holes were encountered.

4. Note if water, free product, or bedrock were encountered: Water, free product, and bedrock were not observed.

5. Quantity of soil removed:

Two drums of soil were removed. The remaining soil was returned to the tank pit

6. Describe soil type(s):

The soils encountered during the UST closure consisted mostly of a clayey sand. According to the geologic map of North Carolina, the site is located in the Raleigh Belt and is underlain by biotite gneiss and schist's.

7. Type and source of back fill used:

Clean soil was used from a local pit.

8. Describe the location and method of disposal of the UST's:

The Tanks were disposed of by Environmental Contracting Services, LLC (Appendix A).

D. Contaminated Soil

Note: Suspected contaminated soil should be segregated from soil that appears to be uncontaminated and should be treated as contaminated until proven otherwise. It should <u>not</u> be used as back fill.

1. Describe how it was determined to what extent to excavate the soil:

Just enough soil was excavated to remove the tank. Two drums of contaminated soil were disposed of due to spillage of residual sludge in the UST.

2. Describe method of temporary storage, sampling and treatment/disposal of soil:

Contaminated soil was not excavated. Soil was returned to the tank pit. Two drums of soil were disposed of due to the spillage of residual sludge in the UST.

III. Site investigation

A. Provide information on field screening and observations, include methods used to calibrate field screening instrument(s):

Soil samples were not screened in the field.

- B. Describe soil sampling points and sampling procedures used, including:

 Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.
- Location of samples:

Sample verse collected below the hour effect tenler gure 3).

- Type of samples (from excavation, stockpiled soil, etc.):

Samples with the fam the street of the same of the sam

- Sample collection procedures (grab, split spoon, hand auger, etc.):
 Grab samples were collected beneath the tank.
- Depth of soil samples (below land surface): Sample depths are shown in Figure 3.
- Whether samples were taken from side or floor of an excavation: Samples were taken from the floor of the excavation.
- Sample identification:

Sample identification is listed in Table 1, and shown in Figure 3.

- Sample analyses:

Samples analyses and results are listed in Table 1, and shown in Figure 3.

- C. Describe groundwater or surface water sampling procedures used, including:

 Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.
- Location of samples
- Sample collection procedures (grab, bailer, etc.)

Ground West and rest offerent order

- Sample identification Ground water camples are not colle

- Sample analyses

- D. Quality control measures
- Describe sample handling procedures including sample preservation and transportation: Chain of custody was initiated; samples were preserved on ice and delivered to the lab.
- Describe decontamination procedures used:
 All samples (grab) were collected with a clean latex glove.

- Describe time and date samples were collected and date submitted to lab: Samples were collected on 4/24/06, and submitted to the lab on 4/24/06.
- Describe samples collected for quality control purposes (e.g. duplicates, field blanks, trip blanks, etc.) Include methods used to obtain these samples and analytical parameters.:

No blanks or duplicates were collected.

- Discuss how results of quality control samples may have affected your interpretation of soil, groundwater or surface water sample results Not applicable.
- E. Investigation results
- Describe methods of analyses used (include U.S. EPA method number) USEPA Method 8015/5030 (Table 1 and Figure 3).
- Describe analytical results for samples; discuss in relation to site specific cleanup level or action level, as appropriate

USEPA Method TPH DRO/GRO reported contaminant concentrations below action limits (Figure 3).

IV. Conclusions and Recommendations

Include probable sources of contamination, further investigation or remediation tasks, or whether no further action is required.

USEPA Method TPH DRO/GRO reported contaminant concentrations below action limits (Figure 3). No further investigation and/or remediation should be required at this portion of the site.

V. Signature of Professional Engineer or Licensed Geologist

Raj B. Shah, P.E.

Agra Environmental, Inc

■Professional Engineer Registration #: 18398

9-18-06-

reviewed report page 2 of report - clarify the Hem # 5 of site characteristics Det knowledge et site udventes site is served by private wells.

page 2 of report - correct item # 4 of site characteristry

MAP 9-18-06

VI. Enclosures

- A. Figures
 - 1. Site Location and Regional Topography
 - 2. Location Diagram
 - 3. Sample Location Diagram
- B. Tables
 - 1. Sample Analytical Results Soil
- C. Appendices

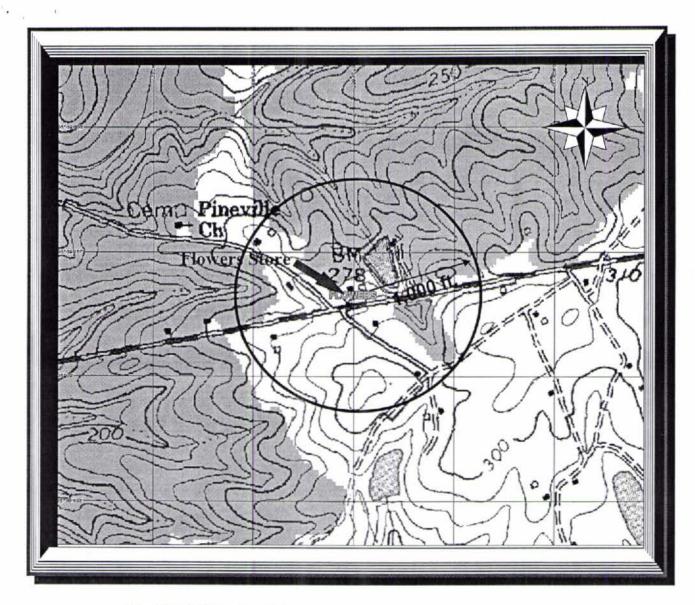
Appendix A: Site Investigation Report (GW/UST 2 Form)

Appendix C: Certificate of Tank Disposal

Appendix E: Complete Chain-of-Custody Records

Appendix F: Laboratory Analytical Records

FIGURES





1000 500 0 1000

CONTOUR INTERVAL: 10 FEET

FLOWERS, NORTH CAROLINA

7.5' QUADRANGLE N3539 - W7821/7.5

SITE LOCATION AND
REGIONAL TOPOGRAPHY
FLOWERS STORE, CLAYTON
JOHNSON COUNTY, NORTH CAROLINA

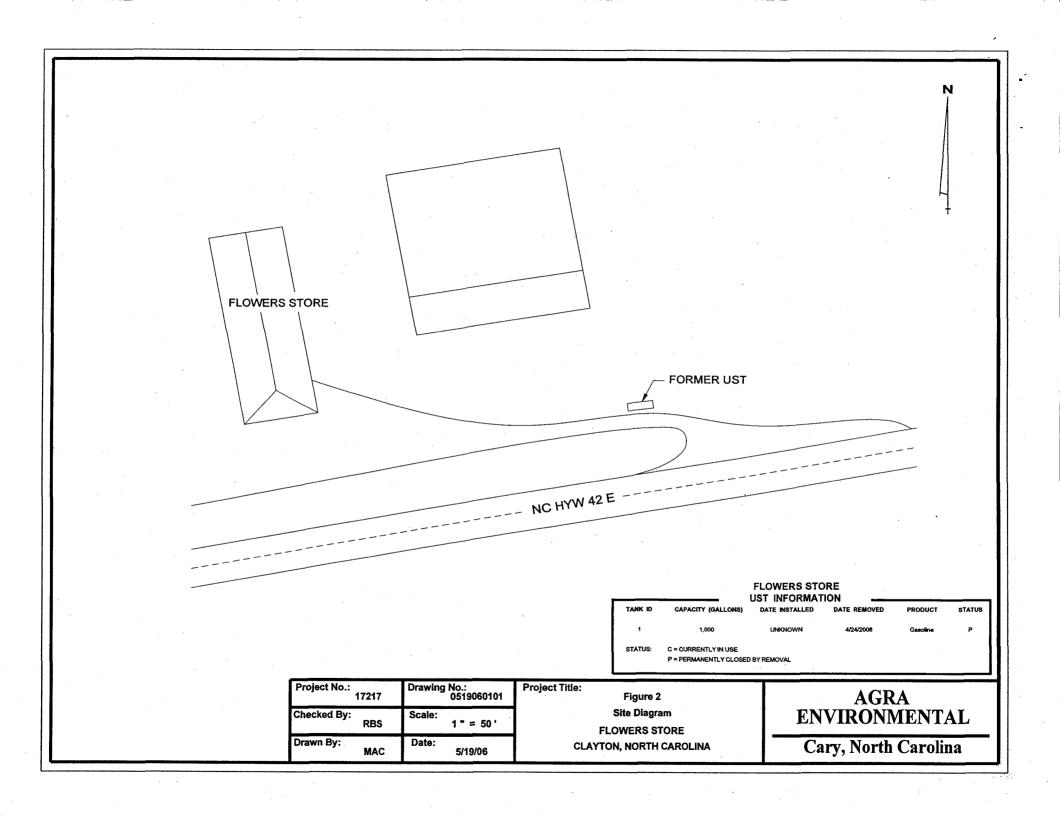
QUADRANGLE LOCATION

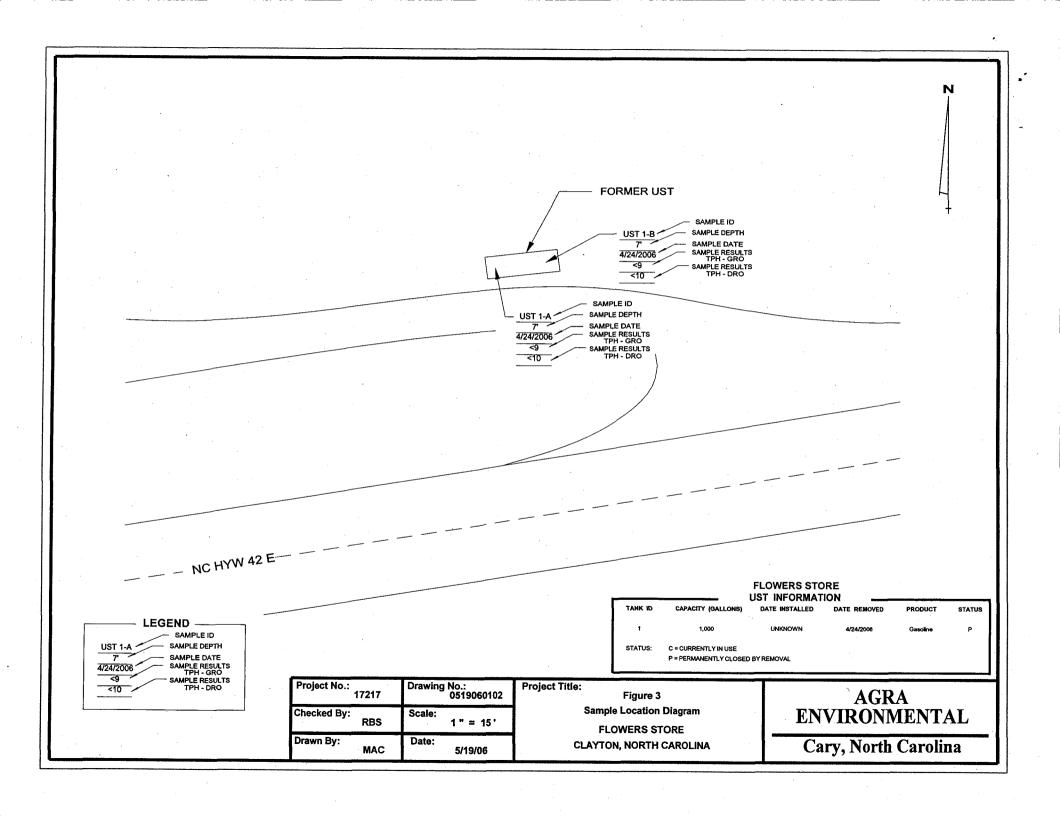


AGRA ENVIRONMENTAL

POST OFFICE BOX 5611 CARY, NORTH CAROLINA 27512

DIAGRAM#:	DATE:
06-0619	6/19/06
SCALE: 1:12,000	FIGURE#1





TABLES

TABLE 1

SAMPLE ANALYTICAL RESULTS – SOIL April 24, 2006

Flowers Store 4121 NC Hwy 42 East Clayton, Johnston County, North Carolina Incident # 17217

SAMPLE	DATE COLLECTED	DEPTH (FEET)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
UST 1A	4/24/06	6.0'	<9	<10
UST 1B	4/24/06	6.0'	<9	<10

TPH - total petroleum hydrocarbons

GRO - gasoline range organics DRO - diesel range organics mg/kg - parts per million

APPENDIX A

SITE INVESTIGATION REPORT FOR CLOSURE OR CHANGE-IN-SERVICE OF UST (GW/UST-2 FORM)

Site Investigation Report for Permanent Closure or Change-in-Service of UST Return completed form to: STATE USE ONLY: The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in I.D.# Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED". Date Received I. OWNERSHIP OF TANKS **II. LOCATION OF TANKS** Flowers Owner Name (Corporation, Individual, Public Agency, or Other Entity) Facility Name or Company Hurch Facility ID # (If known) Street Address Zip Code County Area Code Area Code Phone Number III. CONTACT PERSONNEL Marh Cree Job Title P Tel. No. 9/9-858-5350 Tel. No. 919-775-13 Environmetandiress Address IV. UST INFORMATION V. EXCAVATION CONDITION VI. ADDITIONAL INFORMATION Water in Tank Size in Tank Last Free Notable odor or visible See reverse side of pink copy product soil contamination Gallons No. Dimensions Contents copy) for additional information required by No NC DWM in the written report and sketch. "x/2 NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing signature and seal of the P.E. or L.G. bearing the CHECKLIST (CHECK THE ACTIVITIES COMPLETED) PERMANENT CLOSURE ABANDONMENT IN PLACE (For Removal or Abandonment-in-Place) G Fill tank until material overflows tank opening Plug or cap all openings Contact local fire marshal Notify DWM Regional Office before abandonment Disconnect and cap or remove vent line ☐ Solid inert material used --specify_ Drain and flush piping into tank Remove all product and residuals from tank Excavate down to tank Clean and inspect tank REMOVAL Remove drop tube, fill pipe, gauge pipe, vapor recovery tank Create vent hole connections, submersible pumps, and all other tank fixtures Label tank Cap or plug all lines except the vent and fill lines Dispose of tank in approved manner. Final tank destination: Purge the tank of all product and flammable vapors Cut one or more large holes in the tank ₩ Backfill the area Date tank(s) Permanently Closed: 4/24/OC

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

Print name and official title of owner or owner's authorized representative

Signature

Date Signed

19/06

UST-2 Rev 02/2001

Date of Change in-service:

White conv. - Pegional Office

Yellow Copy - Central Office-

Pink Copy - Owner

APPENDIX B

CERTIFICATE OF TANK DISPOSAL

Certificate of Tank Disposal

presented to

Hara Environmental

This document verifies the following | 1000 colleges properly cleaned, transported, and disposed of in accordance with all applicable

Environmental Contracting Services LLC

4-14-06

Signature

Date

APPENDIX C

COMPLETE CHAIN-OF-CUSTODY RECORDS

COMMENTS 8040 Villa Park Drive, Suite 250 Richmond, Virginia 23228 Toll Free (800) 888-8061 Phone (804) 264-7100 Fax (804) 264-8873 ANALYSIS REQUESTED (Place an "X" in the box below to indicate request) Preservative Other HOsN ^EONH HCF OS2H CHAIN OF CUSTODY RECORD SPECIAL INSTRUCTIONS: Grab / Comp. 0 O # of Bottles 100g **XIRTAM** Date & Time 5H:11 90/AUH 11.50 Agor Environmental Inc 539 Keisler Dove Stell ENVIRUNIMENTAL CHAIN OF CUSTODY Sample Identification Cary MC 27572 L-B とうと Lab ID

APPENDIX D

LABORATORY ANALYTICAL RECORDS



> Phone: (804)264-7100 Fax: (804)264-8873

April 28, 2006

LEE COVINGTON AGRA ENVIRONMENTAL **SUITE 104** 539 KEISLER DRIVE **CARY, NC 27511**

Purchase Order:

Client ID:

FLOWERS STORE 6116011

Workorder:

aun 1 Casto

Dear LEE COVINGTON:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, April 26, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please call the Client Services Dept. at 1-800-888-8061.

Sincerely,

DAWN

Unless otherwise specified all analyses of solid materials are based on dry weight.

The signatures at the end of this report certify that the results are based on the referenced methods and unless otherwise noted meet the requirements of NELAC.

Reported results relate only to the items tested, as received by the laboratory.

On-site analysis (analysis ASAP) is recommended for the following tests: pH, temperature, dissolved oxygen, residual chlorine and sulfite. When performed off-site, these tests do not meet the NELAC standards.

Abbreviations:

ug/L = micrograms per Liter, mg/L = milligrams per Liter, ug/g micrograms per gram, mg/kg = milligrams per kilogram ug/wp = micrograms per wipe, ug/ml = micrograms per milliliter, uS = microsiemens per centimeter at 25 degrees ppb = parts per billion, DF = Dilution Factor



> Phone: (804)264-7100 Fax: (804)264-8873

SAMPLE SUMMARY

Workorder 6116011 FLOWERS STORE

Lab ID	Sample ID	Matrix	Received Cond	Date Collected	Date Received
6116011001	UST 1-A	Soil/Solids/Sedi	OK	4/24/2006 11:45	4/26/2006 11:41
6116011002	UST 1-B	Soil/Solids/Sedi	ок	4/24/2006 11:50	4/26/2006 11:41



> Phone: (804)264-7100 Fax: (804)264-8873

ANALYTICAL RESULTS

Workorder 6116011 FLOWERS S	TORE								
Lab ID: 6116011001 Sample ID: UST 1-A	•				Received: 4/26/20 Collected: 4/24/20			oil/Solids/ RAB	Sediment
Parameters	Results	Units	Report Limit	DF	Prepared	Ву	Analyzed	Ву С	u RegLmt
Physical Properties									
Analysis Desc: sec 7.2	SW-846 3	550	Analy	lical	Method: SW-846	3550 se	ec 7.2		
Percent Moisture	14.8	%		1			04/27/2006 11	:31 DM	
Gasoline Range Organics									
Analysis Desc:	SW-846 86	015B	-		n Method: SW-846 Method: SW-846				
TPH - GRO	<9	mg/K	g 9	1	04/26/2006 14:00	SJS	04/26/2006 17	:16 SJS	
Diesel Range Organics (DRO)	<10.0	mg/Kg	10.0	1	04/27/2006 13:15	DM	04/27/2006 16	:52 MBC	



> Phone: (804)264-7100 Fax: (804)264-8873

ANALYTICAL RESULTS

Workorder 6116011 FLOWERS	STORE			•••					
Lab ID: 6116011002 Sample ID: UST 1-B					Received: 4/26/2006 Collected: 4/24/2006		Matrix: TYPE:	Soil/Soli	ids/Sedime
Parameters	Results	Units	Report Limit	DF	Prepared E	Зу /	Analyzed	В	/ Qu Regi
Physical Properties									,
Analysis Desc sec 7.2	: SW-846 3	550	Analy	tical l	Method: SW-846 355	0 sec	7.2	······································	
Percent Moisture	11.4	. %		1		0	4/27/2006	11:32 DI	
Gasoline Range Organics	·						· - -		
Analysis Desc	: SW-846 8	015B	Prepa	ration	n Method: SW-846 50	035			
			Analyt	ical I	Method: SW-846 801	5B		٠.	•
TPH - GRO	<9	mg/Kg	9	1	04/26/2006 14:00 SJ	S 0	4/26/2006	17:54 S.	IS
Diesel Range Organics (DRO)	<10.0	mg/Kg	10.0	1	04/27/2006 13:16 DM	1 0	4/27/2006	17:14 M	ВС



Account Name: Agra GNV.

pMOOM

Sample Container Receipt Form:

Sample Identification	UST 1-A	UST (-B				
Type of Container	802JR	827PR				
Number of Containers		_				
Temperature on Arrival	₹.	W				
pH on Arrival	WA	ž				
Chlorine on Arrival (ppm)	γw	WA)		22.		
VOA Sample Condition						
General Condition	Jus	See.				
)	O				
Notes and comments						

P=Plastic; G=Glass, Am=Amber, VOA=VOA vial

for VOC's in soil. See attached for detail	s in soil. See attached for details on s	s in soil. See attached for details on sampl	s in soil. See attached for details on s
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	ПО	on sampl	on sampl

Sample Custodian Applemay Date 420la



FINAL DRAFT

November 1, 2012

Mr. Mark Petermann North Carolina Department of Environment and Natural Resources DWM/UST Section 1637 Mail Service Center Raleigh, North Carolina 27699-1637

Groundwater Monitoring Event Letter/Report: October 2012 RE:

> **Gladys Flowers Store** 4181 NC HWY 42 E Clayton, Johnston County

IN: TF-17217

Contract Number: 4351-4C

Dear Mr. Petermann:

Crawford Environmental Services (CES) personnel were at the referenced site located at 4181 NC HWY 42E in Clayton, Johnston County, NC on October 4, 2012, to sample temporary monitoring wells TW-1, TW-2, TW-3 and TW-4, conduct a receptor update, survey the temporary well head elevations, and determine if water supply well WSW-1 had been abandoned. Temporary well TW-1, TW-2 and TW-4 were not located, appear to have been destroyed and therefore were not sampled. The wells were not surveyed as only monitoring well remained at the site. Based upon site observations and discussion with the property owner, the property utilizing WSW-1 has been connected to public water and WSW-1 has been abandoned.

Prior to sampling, a depth to water measurement was collected from the temporary monitoring well TW-3 using an electronic water level meter. The well was then purged until dry using a new dedicated disposable bailer and new nylon cord. Upon purging, groundwater samples were collected from the well using the dedicated bailer. The samples were transferred to laboratory prepared containers, immediately placed on ice in a cooler and transported under chain-of-custody to Shealy Environmental Services, Inc., a NC Certified laboratory. The samples were analyzed for volatile organic compounds by EPA Method 6200B + IPE, MTBE and EDB. Based upon the analytical report, no targeted compounds were detected in the samples collected from monitoring well TW-1.

The subject property contains two buildings formerly utilized for gasoline retail and auto repair. The site is located in a sparsely populated rural/residential setting within the jurisdictional limits of Clayton, North

MID-ATLANTIC REGION

15 CHURCH AVENUE, SW Roanoke, Virginia 24011 OFFICE 540 343.6256 Fax 540 343.6259 ccrawford@crawfordenvironmental.com

104 CORPORATE BLVD, SUITE 412 WEST COLUMBIA, SOUTH CAROLINA 29169 Office 803 708.0079

SOUTHEAST REGION

Fax 803 708.8137 dobrien@crawfordenvironmental.com SOUTHEAST REGION

515 S. NEW HOPE ROAD, SUITE 104 RALEIGH, NORTH CAROLINA 27610 OFFICE 919 235.3335

Fax 919 235.3345 davidpkwi@crawfordenvironmental.com Carolina (Figure 1). Ground cover is predominantly grass, gravel and building. The site is located at approximate elevation of 276 feet above mean sea level. Ground surface grade generally slopes radially to the north. The nearest surface water feature is a manmade pond located approximately 200 feet to the northeast of the site. Public water is available to the site and surrounding properties. Three active private potable water supply wells were observed within 1,500 feet of the site. The site is not located in the Coastal Plain Physiographic Region. There are no Wellhead Protection Areas located in the vicinity of the site. The nearest place of public gathering is the Pineville Chapel Church located approximately 1,400 feet to the northwest of the site. The nearest residence is located on the adjacent properties to the north and northeast.

The update water supply well information is presented in Table 1. The update adjacent property ownership information is presented in Table 2. Monitoring well details and depth to water measurements are included in Table 3. A summary of the analytical results is included in Table 4. Figures showing the site location, monitoring well locations and supply well locations as depicted are presented in Appendix A. The laboratory analytical report for the September 21, 2012 groundwater sampling event is included in Appendix B. Field notes are included in Appendix C.

Best Regards,

David P. Kwiatkowski, P.G. NC Division Manager

Enclosures

TABLES

TABLE 1
WATER SUPPLY WELL INFORMATION
FORMER FLOWERS STORE
CLAYTON, JOHNSTON COUNTY
INCIDENT No. 17217

WSW-1Pamela Flowers105 South Ridge Drive Garner, NC 275294181 HWY 42EWSW-2Jimmy Flowers4116 HWY 42 E4116 HWY 42 EWSW-3Peggy Flowers4400 HWY 42E4400 HWY 42EWSW-4Brandi Dean Flowers303 Smiths Winding Lane Pikeville, NC 278634300 HWY 42 E5WSW-5John Purdon160 Motorcycle Road160 Motorcycle Road5WSW-6Pineville Chapel Church270 Motorcycle Road5	WELL ID	WELL OWNER/USER	Owner Address	Property Address	Phone Number	WELL USE	DISTANCE FROM SOURCE AREA (FT)
Jimmy Flowers4116 HWY 42 E4116 HWY 42 EPeggy Flowers4400 HWY 42 E4400 HWY 42 EBrandi Dean Flowers303 Smiths Winding Lane Pikeville, NC 278634300 HWY 42 EJohn Purdon160 Motorcycle Road160 Motorcycle RoadPineville Chapel Church270 Motorcycle Road270 Motorcycle Road	WSW-1	Pamela Flowers	105 South Ridge Drive Garner, NC 27529	4181 HWY 42E	Not Listed	Abandoned Municipal Water	525
Peggy Flowers 4400 HWY 42E 4400 HWY 42E Brandi Dean Flowers 303 Smiths Winding Lane Pikeville, NC 27863 4300 HWY 42 E John Purdon 160 Motorcycle Road 160 Motorcycle Road Pineville Chapel Church 270 Motorcycle Road 270 Motorcycle Road	WSW-2	Jimmy Flowers		4116 HWY 42 E	919-553-5618	Municipal Water	525
Brandi Dean Flowers 303 Smiths Winding Lane 4300 HWY 42 E Pikeville, NC 27863 John Purdon 160 Motorcycle Road 160 Motorcycle Road Pineville Chapel Church 270 Motorcycle Road 270 Motorcycle Road	WSW-3	Peggy Flowers	4400 HWY 42E	4400 HWY 42E	919-553-1045	Municipal Water	1,100
John Purdon 160 Motorcycle Road 160 Motorcycle Road Pineville Chapel Church 270 Motorcycle Road 270 Motorcycle Road	WSW-4	Brandi Dean Flowers	303 Smiths Winding Lane Pikeville, NC 27863	4300 HWY 42 E	919-553-8504	Potable	006
Pineville Chapel Church 270 Motorcycle Road 270 Motorcycle Road	WSW-5	John Purdon	160 Motorcycle Road	160 Motorcycle Road	919-556-8966	Potable	550
	MSW-6	Pineville Chapel Church	270 Motorcycle Road	270 Motorcycle Road	919-550-0242	Potable	1,400

TABLE 2
PROPERTY OWNERS/OCCUPANTS
FORMER FLOWERS STORE
CLAYTON, JOHNSTON COUNTY
INCIDENT No. 17217

TAX PARCEL NUMBER/ MAP ID	OWNER/OCCUPANT NAME (Last, First MI)	MAILING ADDRESS*	PROPERTY ADDRESS*
1 (SITE)	Motorcycle Road LLC	935 Shotwell Rd. Ste 106	Not listed
2	Pamela Flowers	105 South Ridge Drive Garner, NC 27529	4181 HWY 42E
3	John Purdon	160 Motorcycle Road	160 Motorcycle Road
4	Russell Ragland	132 Torrey Pines Road	120 Motorcycle Road
5	M&R Land LLC	3700 Computer Drive Ste 280	Not Listed
6	Pineville Chapel Church	270 Motorcycle Road	270 Motorcycle Road
7	Peggy Flowers	4400 HWY 42E	4400 HWY 42E
8	Peggy Flowers	4400 HWY 42E	3896 HWY 42E
9	Peggy Flowers	4400 HWY 42E	10 Portfino Drive
10	Jimmy Flowers	1270 B North Brightlief Blvd Smithfield, NC 27577	Not Listed
11	Jimmy Flowers	4116 HWY 42 E	4116 HWY 42 E
12	Brandi Dean Flowers	303 Smiths Winding Lane Pikeville, NC 27863	4300 HWY 42 E
13	Rebecca Flowers	4880 HWY 42 E	Not Listed
14	DWF Development Inc.	4880 HWY 42 E	44 Syphrona Circle
15	Johnston County	P.O. Box 1049 Smithfield, NC 27577	Not Listed
16	Melanie Ford	4545 little Creek Church Road	35 Syphrona Circle
17	DWF Development Inc.	4880 HWY 42 E	34 Syphrona Circle
18	John Turcotte	147 Kollinova Drive	147 Kollinova Drive
19	Christopher Spagnoletti	603 Birkdale Drive	177 Kollinova Drive
20	Curt Hallinger	142 Helena Lane	187 Kollinova Drive

TABLE 3
MONITORING WELL CONSTRUCTION INFORMATION
FORMER FLOWERS STORE
CLAYTON, JOHNSTON COUNTY
INCIDENT No. 17217

Well ID	_	Date Well Casing Interval (ft Installed depth (ft.)	Screened Interval (ft BLS)	Depth of Well (BLS)	Top of Casing Elevation* (ft.)	Date Water Level Measured	Depth to Water	Free Product Thickness (ft.)**	Groundwater Elevation*	Comments
					279.24	80/2/6	34.72	NA	244.52	
TW-1	8/28/08	20	20 - 35	35	279.24	60/0E/6	33.96	NA	245.28	
					279.24	10/4/12	NM	NA	NM	WELL DESTROYED
					279.30	80/7/6	23.28	NA	256.02	
TW-2	8/28/08	20	20 - 35	32	279.30	60/08/6	22.20	NA	257.10	
					279.30	10/4/12	ΝN	NA	NM	WELL DESTROYED
					278.21	80/7/6	27.50	NA	250.71	
TW-3	8/28/08	20	20 - 35	35	278.21	60/08/6	26.61	NA	251.60	
					278.21	10/4/12	29.30	NA	248.91	
					277.86	80/7/6	35.74	NA	242.12	
TW-4	8/28/08	20	20 - 35	32	277.86	60/0ɛ/6	DRY	NA	DRY	
				. —	277.86	10/4/12	NM	NA	NM	WELL DESTROYED

 st - Reference Point for Elevation Measurements is on-site USGS Benchmark elevation of 278.0 ft.

^{** -} Groundwater elevation calculated by [Top of Casing Elevation - Depth to water] + [Free Product Thickness x 0.8581]

SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS CLAYTON, JOHNSTON COUNTY **FORMER FLOWERS STORE** INCIDENT No. 17217 **TABLE 4**

NALYTICAL METHOL							9 100	6200B CONTAMINANTS	MANTS	OF CON	OF CONCERN/CONCENTRATION (118/L)	NCENT	RATION		8270		AADEP \	МАБЕР VРН/ЕРН	П	3030C
Collected Benzene Toluene Ethylbenzene Xylenes (Total) MTBE	Toluene Ethylbenzene Xylenes (Total) MTBE	Ethylbenzene Xylenes (Total) MTBE	Xylenes (Total) MTBE	38TM 	IbE			EDB (204:1)	PueledideN	nəznədlyhtəmi٦T-۵,۲,۲,۲	nəznədlyrləmirT-Z,£,£	Tetrachloroethene	Isopropylbenzene	n-Propylbenzene	atsledfyl phthalate	soitshqilA 80-50	c9-C18 Aliphatics	c219-C36Aliphatics	C9-C122 Aromatics	Lead
ON ON ON ON ON ON ON 67/6	ON ON ON	QN QN QN	QN QN	QN	_	ΔN		QN	QN	QN	ND	DN	ND	ND	6.68	ND	29	91	350	250
ON ON ON ON ON ON 60/08/6	ON ON ON	ON ON ON	ON ON	QV	_	ND		QN	ND	QN	ND	0.89	ND	ND	NA	NA	NA	NA	NA	NA
10/4/12							1		NOT S	NOT SAMPLED	- WELL DESTROYED	SESTRO	YED							
ON ON ON ON ON ON ON ON	ON ON ON ON	ON ON ON	QN QN	QN		ΠN		QN	QN	QN	QN	DN	ΠN	ND	NA	NA	NA	NA	NA	NA
ON ON ON ON ON ON 60/08/6	QN QN QN	ON ON ON	QN QN	Ð	_	ON	_	QN	ND	QN	ND	0.71	QN	QN	NA	NA	NA	NA	NA	ND
10/4/12						!			NOT S	NOT SAMPLED	- WELL	DESTROYED	YED							
ON ON ON ON ON ON 80/2/6	ON ON ON ON	ON ON ON	ON ON	QN	_	QN		ND	ND	ND	QN	ND	ND	ND	NA	NA	NA	NA	NA	ΝΑ
ON ON ON ON ON 60/08/6	ON ON ON ON	ON ON ON	ON ON	QN	_	ND	\vdash	ND	QN	ND	ND	ND	ND	ND	NA	NA	ΝΑ	NA	ΑĀ	11
10/4/12 ND ND ND ND ND	ON ON ON ON	ON ON ON	ON ON	QN	_	g		ON	ND	DN	QN	ND	ND	ND	NA	NA	NA	NA	NA	NA
9/2/08 ND ND ND ND ND ND	ON ON ON ON	ON ON ON	ON ON	ND		QN		ND	ND	ND	ND	ND	ND	ND	AN	A A	ΑΝ	A A	NA	ΑΝ
60/08/6									Ž	OT SAMF	NOT SAMPLED - WELL DRY	ELL DRY								
10/4/12				·					NOT S	AMPLED	NOT SAMPLED - WELL DESTROYED	DESTRO	YED							
2L Standard (µg/L) 1 600 600 500 20 70	600 600 500 20	600 500 20	500 20	20		20	┇	0.02	9	400	400	0.7	70	70	700	420	4,200	42,000	210	15
GCL (µg/L) 5000 260000 84500 85500 20000 70000	260000 84500 85500 20000	260000 84500 85500 20000	85500 20000	85500 20000	20000	7000	Q	50	0009	28,500	25,000	700	25000	30,000	NĖ	N	NL	NL	NL	15,000
Concontration	Dold Concentration exceeds 2 Ctandard	Concontration	Concontration	9	2	0000	د ا	31 C+3	ndard											

ND - Not Detected NA - Not Analyzed

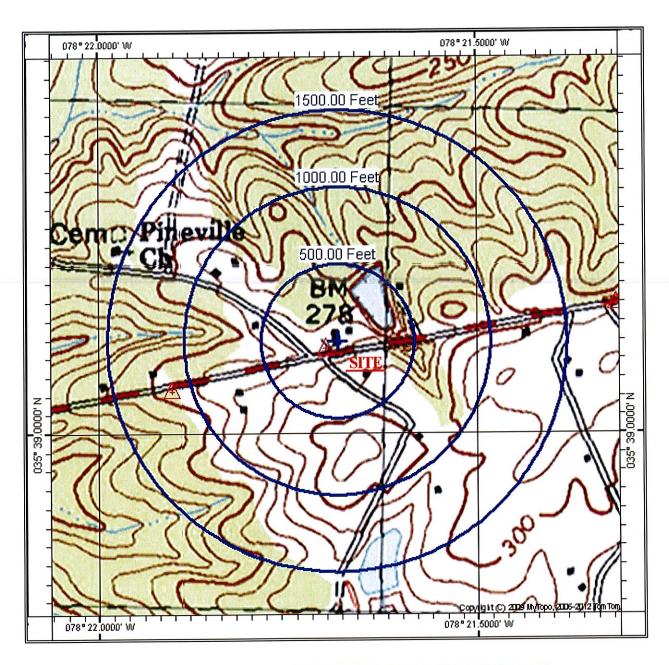
Bold - Concentration exceeds 2L Standard. Staded - Concentration exceeds GCL.

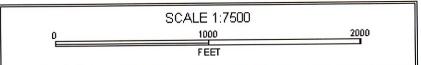
J - Estimated Concentration

APPENDICES

APPENDIX A

Figures







Reference: Terrain Navigator Pro, Ver. 9.1, USGS 7.5 Minute Series Quadrangle, Flowers, NC, 2000. Contour interval = 10 feet

DR. KBB	11/01/2012	
€K -		
APP'D OPK		GWM Report
SCALE As Shown		October 2012
DES PROU NO. 16 3	24	0010001 2012

INCIDENT = 17217

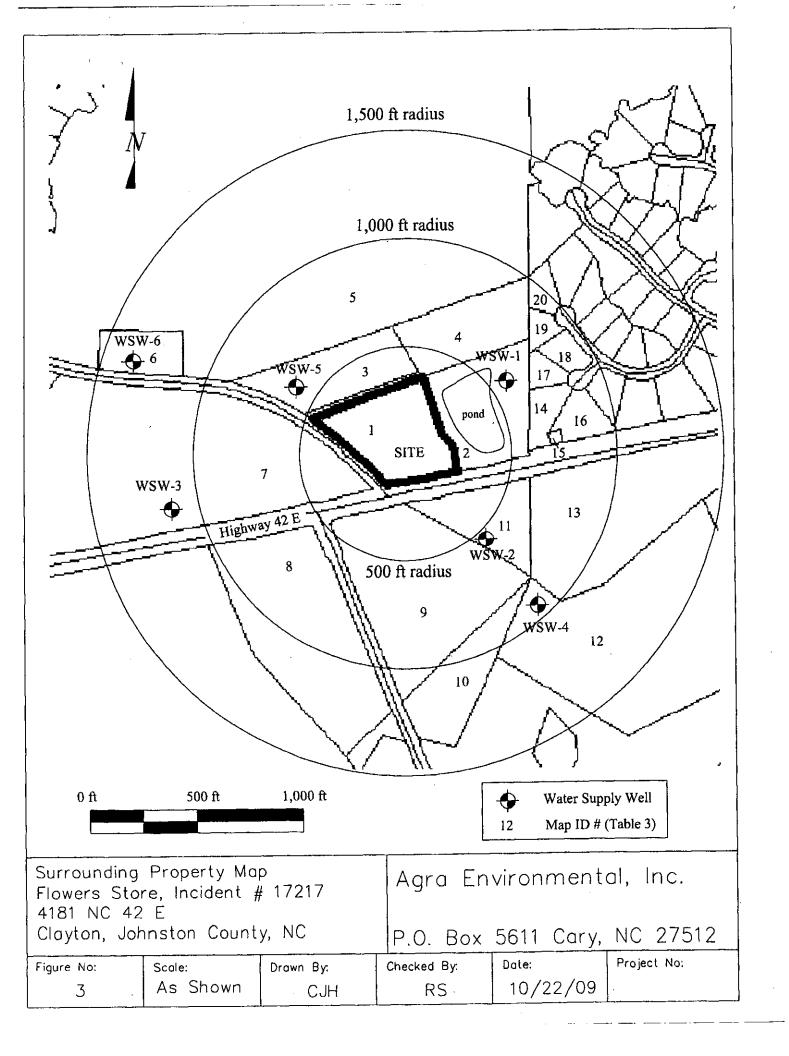


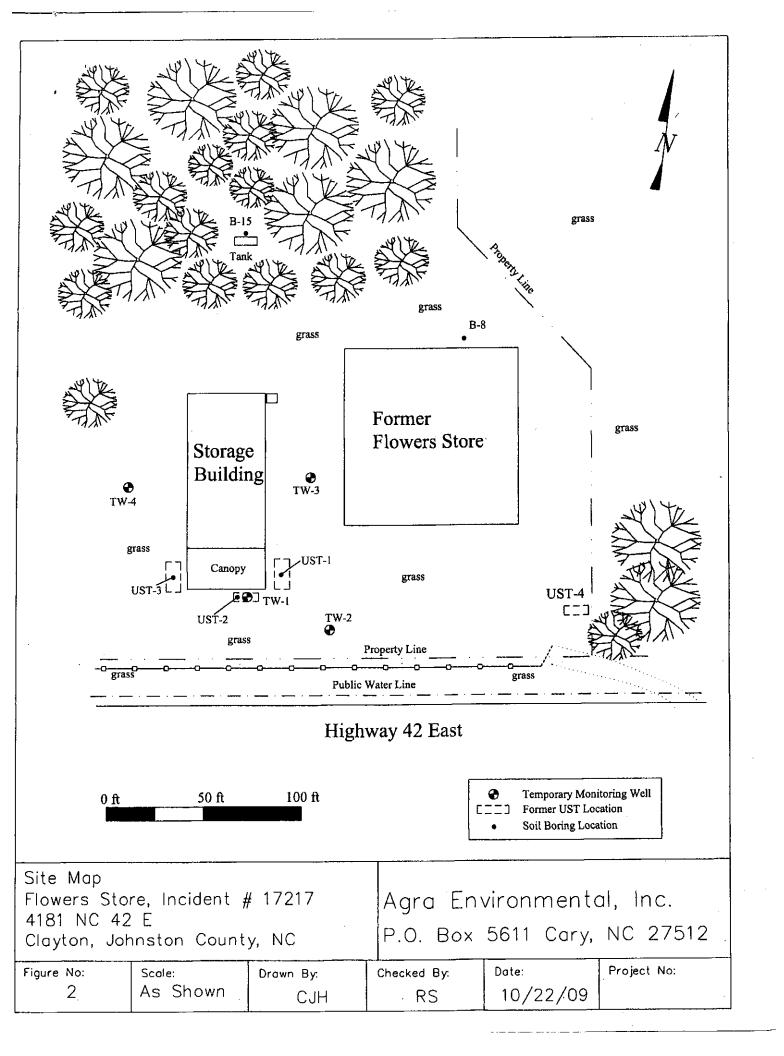
515 S. NewHope Rd., Suite 104 Raleigh, NC 27610

919-235-3335 (office) 919-235-3345 (fax)

Site Location
Former Gladys Flowers Store
4181 NC Highway 42 East
layton, Johnston County, North Carolina

	and the state of t
DRAWING NUVBER	857
Figure 1	0





APPENDIX B

Laboratory Certificate of Analysis and Chain-of-Custody Documentation

Report of Analysis

NCDENR-DWM-UST Section

1637 Mail Service Ctr. Raleigh, NC 27699 Attention: Linda Blalock

Project Name: Flowers Store

Project Number: 17217

Lot Number: NJ10022

Date Completed: 10/22/2012

Lucas Odom

Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • •

SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329

Case Narrative NCDENR-DWM-UST Section

Lot Number: NJ10022

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

GC/MS VOC

Sample -001 was analyzed on the day of that it went out of hold. This sample was collected on 10/04/12 and was analyzed on 10/18/12.

The LCS/LCSD associated with batch 95669 recovered 1,1,2-Trichloro-1,2,2-Trifluoroethane above method criteria. No corrective action was required as the associated sample was non-detect for this compound.

Page: 2 of 13 Level 1 Report v2.1

Sample Summary NCDENR-DWM-UST Section

Lot Number: NJ10022

Sample Number	Sample ID	Matrix Date Sampled	Date Received
001	TW-3	Aqueous 10/04/2012 1030	10/10/2012

(1 sample)

Executive Summary NCDENR-DWM-UST Section

Lot Number: NJ10022

Sample Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Client: NCDENR-DWM-UST Section

Description: TW-3

Date Sampled:10/04/2012 1030 Date Received: 10/10/2012

Laboratory ID: NJ10022-001

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Parameter	Run 1	Prep Method 6200B	Analytical Method SM 6200B	Dilution Analysis 1 10/18/201	-	Prep	Date	Batch 95669			
Bromobenzene 108-86-1 SM 6200B ND H 0.50 0.027 ug/L 1 Bromochloromethane 74-97-5 SM 6200B ND H 0.50 0.055 ug/L 1 Bromochloromethane 75-27-4 SM 6200B ND H 0.50 0.055 ug/L 1 Bromochloromethane 75-27-4 SM 6200B ND H 0.50 0.010 ug/L 1 Bromochloromethane (Methyl bromide) 75-22-2 SM 6200B ND H 0.50 0.010 ug/L 1 Bromomethane (Methyl bromide) 74-83-9 SM 6200B ND H 0.50 0.010 ug/L 1 sec-Butylbenzene 104-51-8 SM 6200B ND H 0.50 0.010 ug/L 1 sec-Butylbenzene 135-98-8 SM 6200B ND H 0.50 0.010 ug/L 1 sec-Butylbenzene 98-06-5 SM 6200B ND H 0.50 0.010 ug/L 1 Chlorobenzene 108-90-7 SM 6200B ND H 0.50 0.010 ug/L 1 Chlorobenzene 108-90-7 SM 6200B ND H 0.50 0.003 ug/L 1 Chlorobenzene 108-90-7 SM 6200B ND H 0.50 0.003 ug/L 1 Chlorobenzene 75-00-3 SM 6200B ND H 0.50 0.003 ug/L 1 Chlorobenzene 75-00-3 SM 6200B ND H 0.50 0.003 ug/L 1 Chlorobenzene 75-00-3 SM 6200B ND H 0.50 0.003 ug/L 1 Chlorobenzene 75-00-3 SM 6200B ND H 0.50 0.003 ug/L 1 Discontinum (Methyl chloride) 74-87-3 SM 6200B ND H 0.50 0.017 ug/L 1 Chlorobenzene 95-49-8 SM 6200B ND H 0.50 0.017 ug/L 1 Chlorobenzene 95-49-8 SM 6200B ND H 0.50 0.017 ug/L 1 Dibromochtomethane (Methyl chloride) 74-93-3 SM 6200B ND H 0.50 0.019 ug/L 1 Dibromochtomethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1.2-Dibromochtane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1.2-Dibromochtane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1.2-Dibromochtane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1.3-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 1.3-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 1.3-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 1.3-Dichlorobenzene 156-69-2 SM 6200B ND H 0.50 0.004 ug/L 1 1.3-Dichlorobenzene 156-69-2 SM 6200B ND H 0.50 0.004 ug/L 1 1.3-Dichlorobenzene 156-69-2 SM 6200B ND H 0.50 0.007 ug/L 1 1.3-Dichlorobenzene 156-69-2 SM 6200B ND H 0.50 0.007 ug/L 1 1.3-Dichlorobenzene 156-69-2 SM 6200B ND H 0.50 0.008 ug/L 1 1.3-Dichloropenae 156-60-5 SM 6200B ND H 0.50 0.009 ug/L 1 1.3-Dichloropenae 156-60-5 SM 6200B ND H 0.50 0.009 ug/	Param	neter			-	Result	Q	PQL	MDL	Units	Run
Bromochtoromethane 74-97-5 SM 6200B ND H 0.50 0.085 Ug/L 1	Benze	ne		71-43-2	SM 6200B	ND	Н	0.50	0.027	ug/L	1
Promodichioromethane 75-27-4 SM 62008 ND H 0.50 0.17 vg/L 1	Bromo	benzene		108-86-1	SM 6200B	ND	Н	0.50	0.027	ug/L	1
Bromotome	Bromo	chloromethane		74-97-5	SM 6200B	ND	Н	0.50	0.055	ug/L	1
Semonmethane (Methyl bromide) 74-83-9 SM 6200B ND H 0.50 0.20 ug/L 1	Bromo	dichloromethane		75-27-4	SM 6200B	ND	Н	0.50	0.17	ug/L	1
n-Bulylbenzene	Bromo	form		75-25-2	SM 6200B	ND	Н	0.50	0.010	ug/L	1
sec-Bulyblenzene 133-98-8 SM 52008 ND H 0.50 0.010 ug/L 1 tert-Bulyblenzene 98-06-6 SM 52008 ND H 0.50 0.037 ug/L 1 Carbon tetrachloride 56-23-5 SM 62008 ND H 0.50 0.037 ug/L 1 Chlorobenzene 108-90-7 SM 62008 ND H 0.50 0.17 ug/L 1 Chlorobenzene 108-90-7 SM 62008 ND H 0.50 0.17 ug/L 1 Chlorobenzene 75-00-3 SM 62008 ND H 0.50 0.17 ug/L 1 Chlorofthane 75-00-3 SM 62008 ND H 0.50 0.17 ug/L 1 Chlorofthane 74-87-3 SM 62008 ND H 0.50 0.17 ug/L 1 Chlorofthane 98-49-8 SM 62008 ND H 0.50 0.17 ug/L 1 Chloroftolucene 99-49-8 SM 62008 ND H 0.50 0.059 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.059 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.059 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.059 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.019 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.019 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.019 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.019 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.061 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.061 ug/L 1 Chloroftolucene 106-43-4 SM 62008 ND H 0.50 0.061 ug/L 1 Chloroftolucene 106-43-5 SM 62008 ND H 0.50 0.061 ug/L 1 Chloroftolucene 106-43-5 SM 62008 ND H 0.50 0.061 ug/L 1 Chloroftolucene 106-43-7 SM 62008 ND H 0.50 0.071 ug/L 1 Chloroftolucene 106-46-7 SM 62008 ND H 0.50 0.071 ug/L 1 Chloroftolucene 106-46-7 SM 62008 ND H 0.50 0.071 ug/L 1 Chloroftolucene 107-06-2 SM 62008 ND H 0.50 0.064 ug/L 1 Chloroftolucene 107-06-2 SM 62008 ND H 0.50 0.064 ug/L 1 Chloroftolucene 156-59-2 SM 62008 ND H 0.50 0.064 ug/L 1 Chloroftolucene 156-59-2 SM 62008 ND H 0.50 0.064 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.069 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.069 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.069 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.060 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.060 ug/L 1 Chloroftopropane 142-28-9 SM 62008 ND H 0.50 0.060 ug/L 1 Chloroftopropane 1406-10-5 SM 62008 ND H 0.50 0.060 ug/L 1 Chloro	Bromo	methane (Methyl b	romide)	74-83-9	SM 6200B	ND	Н	0.50	0.20	ug/L	1
Section Sect	n-Buty	lbenzene		104-51-8	SM 6200B	ND	Н	0.50	0.017	ug/L	1
Carbon tetrachloride	sec-Bu	utylbenzene		135-98-8	SM 6200B	ND	Н	0.50	0.010	ug/L	1
Chlorobetraene 108-90-7 SM 6200B ND H 0.50 0.17 ug/L 1 Chlorobethane 75-00-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 67-86-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 67-86-3 SM 6200B ND H 0.50 0.17 ug/L 1 2-Chlorobthane (Methyl chloride) 74-87-3 SM 6200B ND H 0.50 0.17 ug/L 1 2-Chlorobthane (Methyl chloride) 106-43-4 SM 6200B ND H 0.50 0.059 ug/L 1 2-Chlorobthane 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 1 2-Chlorobthane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1 1-2-Dichlorobethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1-2-Dichlorobethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1 1-2-Dichlorobethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1 1-2-Dichlorobethane 95-50-1 SM 6200B ND H 0.50 0.061 ug/L 1 1 1-2-Dichlorobethane (EDB) 166-46-7 SM 6200B ND H 0.50 0.094 ug/L 1 1 1-3-Dichlorobethane 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1-1-Dichlorobethane 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1-1-Dichlorobethane 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1-1-Dichlorobethane 107-06-2 SM 6200B ND H 0.50 0.017 ug/L 1 1-1-Dichlorobethane 107-06-2 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorobethane 107-06-2 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorobethane 156-69-2 SM 6200B ND H 0.50 0.004 ug/L 1 1-1-Dichlorobethane 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1-1-Dichlorobethane 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.097 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloropethane 156-69-2 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichlorope	tert-Bu	itylbenzene		98-06-6	SM 6200B	ND	Н	0.50	0.037	ug/L	1
Chloroethane 75-00-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 67-66-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 67-66-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 67-66-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloroform 95-49-8 SM 6200B ND H 0.50 0.079 ug/L 1 Chlorotoluene 95-49-8 SM 6200B ND H 0.50 0.059 ug/L 1 Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 Chlorotoluene 124-48-1 SM 6200B ND H 0.50 0.019 ug/L 1 Chlorotomethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 Chloromethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 Chlorotomethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.061 ug/L 1 Chlorotomethane (Methylene bromide) 85-50-1 SM 6200B ND H 0.50 0.061 ug/L 1 Chlorotomethane 124-48-1 SM 6200B ND H 0.50 0.071 ug/L 1 Chlorotomethane 124-48-1 SM 6200B ND H 0.50 0.071 ug/L 1 Chlorotomethane 125-50-1 SM 6200B ND H 0.50 0.071 ug/L 1 Chlorotomethane 125-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 Chlorotomethane 126-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 Chlorotomethane 156-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 Chlorotomethane 156-34-3 SM 6200B ND H 0.50 0.071 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.064 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.081 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.081 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.081 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0.081 ug/L 1 Chlorotomethane 156-60-5 SM 6200B ND H 0.50 0	Carbo	n tetrachloride		56-23-5	SM 6200B	ND	Н	0.50	0.085	ug/L	1
Chloroform 67-66-3 SM 6200B ND H 0.50 0.17 ug/L 1 Chloromethane (Methyl chloride) 74-87-3 SM 6200B ND H 0.50 0.17 ug/L 1 2-Chlorotoluene 95-49-8 SM 6200B ND H 0.50 0.059 ug/L 1 4-Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 1-2-Dibromochloromethane 1124-48-1 SM 6200B ND H 0.50 0.019 ug/L 1 1-2-Dibromochloromethane 1124-48-1 SM 6200B ND H 0.50 0.019 ug/L 1 1-2-Dibromochlane (EDB) 106-93-4 SM 6200B ND H 0.50 0.017 ug/L 1 1-2-Dibromochlane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1-2-Dibromomethane (Methylene bromide) 174-95-3 SM 6200B ND H 0.50 0.061 ug/L 1 1-2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 1-3-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 1-3-Dichlorobenzene 106-48-7 SM 6200B ND H 0.50 0.17 ug/L 1 1-4-Dichlorotentane 156-12-Dibromothane 175-71-8 SM 6200B ND H 0.50 0.17 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.074 ug/L 1 1-2-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.087 ug/L 1 1-1-Dichlorotethane 175-74-8 SM 6200B ND H 0.50 0.087 ug/L 1 1-1-Dichlorotethane 175-75-8 SM 6200B ND H 0.50 0.087 ug/L 1 1-2-Dichlorotethane 175-75-8 SM 6200B ND H 0.50 0.087 ug/L 1 1-1-Dichlorotethane 175-85-85-85-85-85-85-85-85-85-85-85-85-85	Chloro	benzene		108-90-7	SM 6200B	ND	Н	0.50	0.17	ug/L	1
Chloromethane (Methyl chloride) 74-87-3 SM 6200B ND H 0.50 0.077 ug/L 1 2-Chlorotoluene 95-49-8 SM 6200B ND H 0.50 0.099 ug/L 1 2-Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 1-Chloromethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.019 ug/L 1 1-2-Dibromochlaromethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1-2-Dibromochlaromethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.061 ug/L 1 1-2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.071 ug/L 1 1-2-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 1-4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 1-1-Dichlorotentane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotentane 75-34-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotentane 75-34-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotentane 107-06-2 SM 6200B ND H 0.50 0.071 ug/L 1 1-1-Dichlorotentane 156-59-2 SM 6200B ND H 0.50 0.064 ug/L 1 1-1-Dichlorotentane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1-2-Dichloroptene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 1-2-Dichloroptene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 1-2-Dichloroptene 156-59-2 SM 6200B ND H 0.50 0.094 ug/L 1 1-2-Dichloroptene 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1-3-Dichloroptene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 1-3-Dichloroptene 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1-3-Dichloroptene 166-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1-3-Dichloroptene 166-60-5 SM 6200B ND H 0.50 0.090 ug/L 1 1-3-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-3-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.090 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.000 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.000 ug/L 1 1-1-Dichloroptene 10061-02-6 SM 6200B ND H 0.50 0.000 ug/L 1 1-Disporopylether (IPE) 108-20-3 SM 6200B ND H 0.50 0.000 ug/L 1 1-Disporopyl	Chloro	ethane		75-00-3	SM 6200B	ND	Н	0.50	0.17	ug/L	1
Chloromethane (Methyl chloride) 74-87-3 SM 6200B ND H 0.50 0.17 ug/L 1 2-Chlorotoluene 95-49-8 SM 6200B ND H 0.50 0.059 ug/L 1 4-Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 Dibromochromethane 124-48-1 SM 6200B ND H 0.50 0.019 ug/L 1 1,2-Dibromoethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1,2-Dibromoethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1,2-Dibromoethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.061 ug/L 1 1,3-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.017 ug/L 1 1,3-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1,4-Dichlorotenzene 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1,4-Dichlorotenzene 106-46-7 SM 6200B ND H 0.50 0.017 ug/L 1 1,4-Dichlorotenzene 175-71-8 SM 6200B ND H 0.50 0.017 ug/L 1 1,1-Dichlorotenzene 175-34-3 SM 6200B ND H 0.50 0.017 ug/L 1 1,1-Dichlorotenzene 175-34-3 SM 6200B ND H 0.50 0.017 ug/L 1 1,1-Dichlorotenzene 175-35-4 SM 6200B ND H 0.50 0.004 ug/L 1 1,1-Dichlorotenzene 175-35-4 SM 6200B ND H 0.50 0.004 ug/L 1 1,1-Dichlorotenzene 156-59-2 SM 6200B ND H 0.50 0.003 ug/L 1 1,1-Dichlorotenzene 156-60-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,2-Dichlorotenzene 156-60-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,2-Dichloroptenzene 156-60-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,2-Dichloroptenzene 156-60-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,2-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.0094 ug/L 1 1,3-Dichloropropane 156-60-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,3-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.0094 ug/L 1 1,3-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1,1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0.0094 ug/L 1 1-Dichloropropane 10061-02-6 SM 6200B ND H 0.50 0	Chloro	form		67-66-3	SM 6200B	ND	Н	0.50	0.17	ug/L	1
2-Chlorotoluene 95-49-8 SM 6200B ND H 0.50 0.059 ug/L 1 4-Chlorotoluene 106-43-4 SM 6200B ND H 0.50 0.019 ug/L 1 Dibromochloromethane 124-8-1 SM 6200B ND H 0.50 0.017 ug/L 1 1,2-Dibromoethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 1,2-Dibromoethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.061 ug/L 1 1,2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.077 ug/L 1 1,3-Dichlorobenzene 1541-73-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,3-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorobenzene 175-71-8 SM 6200B ND H 0.50 0.17 ug/L 1 1,1-Dichloroethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-34-3 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 175-35-4 SM 6200B ND H 0.50 0.054 ug/L 1 1,1-Dichloroethane 175-35-4 SM 6200B ND H 0.50 0.0054 ug/L 1 1,1-Dichloroethane 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1,1-Dichloroethene 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1,1-Dichloroethene 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichloroethene 156-69-2 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.097 ug/L 1 1,2-Dichloropropane 142-29-7 SM 6200B ND H 0.50 0.091 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.091 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropane 166-10-5 SM 6200B ND H 0.50 0.090 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.090 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.071 ug/L 1 1-Dispopropyle ether (IPE) 108-20-3 SM 6200B ND H 0.5			hloride)	74-87-3	SM 6200B	ND	Н	0.50	0.17	ug/L	1
4-Chlorotoluene 106-43-4 SM 62008 ND H 0.50 0.019 ug/L 1 Dibromochloromethane 124-44-1 SM 62008 ND H 0.50 0.17 ug/L 1 1,2-Dibromoethane (EDB) 106-93-4 SM 62008 ND H 0.50 0.061 ug/L 1 1,2-Dibrhorobenzene 95-50-1 SM 62008 ND H 0.50 0.094 ug/L 1 1,2-Dichlorobenzene 95-50-1 SM 62008 ND H 0.50 0.17 ug/L 1 1,3-Dichlorobenzene 106-46-7 SM 62008 ND H 0.50 0.17 ug/L 1 1,4-Dichloroethane 75-71-8 SM 62008 ND H 0.50 0.071 ug/L 1 1,2-Dichloroethane 75-74-3 SM 62008 ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 156-59-2 SM 62008 ND H 0.50 0.087			···-· ·	95-49-8	SM 6200B	ND	Н	0.50	0.059	ug/L	1
Dibromoethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1				106-43-4	SM 6200B	ND	Н	0.50	0.019	ug/L	1
1,2-Dibromoethane (EDB) 106-93-4 SM 6200B ND H 0.50 0.061 ug/L 1 Dibromomethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,3-Dichlorobenzene 541-73-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 Dichlorodifluoromethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-34-3 SM 6200B ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,2-Dichloroethane 156-69-5 SM 6200B ND H 0.50 0.094 ug/L 1 cls-1,2-Dichloroethane 156-69-5 SM 6200B ND H 0.50 0.087 ug/L 1 <td< td=""><td>Dibron</td><td>nochloromethane</td><td></td><td>124-48-1</td><td>SM 6200B</td><td>ND</td><td>Н</td><td>0.50</td><td>0.17</td><td>ug/L</td><td>1</td></td<>	Dibron	nochloromethane		124-48-1	SM 6200B	ND	Н	0.50	0.17	ug/L	1
Dibromomethane (Methylene bromide) 74-95-3 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,3-Dichlorobenzene 541-73-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorodethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 1,1-Dichloroethene 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichloroethene 156-69-2 SM 6200B ND H 0.50 0.087 ug/L 1 1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1,2-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.019 ug/L 1 1,1-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.074 ug/L 1 1,1-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropane 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.052 ug/L 1 1,1)	106-93-4	SM 6200B	ND	Н	0.50	0.061	ug/L	1
1,2-Dichlorobenzene 95-50-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,3-Dichlorobenzene 541-73-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 Dichlorodifluoromethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-34-3 SM 6200B ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,1-Dichloroethane 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 cis-1,2-Dichloroethane 156-69-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroethane 156-60-5 SM 6200B ND H 0.50 0.087 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropr	,	•	•	74-95-3	SM 6200B	ND	Н	0.50	0.094	ug/L	1
1,3-Dichlorobenzene 541-73-1 SM 6200B ND H 0.50 0.17 ug/L 1 1,4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 Dichlorodifluoromethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-34-3 SM 6200B ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,1-Dichloroethane 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 1,2-Dichloroethane 156-69-2 SM 6200B ND H 0.50 0.087 ug/L 1 1,2-Dichloroptopane 156-69-2 SM 6200B ND H 0.50 0.087 ug/L 1 1,2-Dichloroptopane 156-69-2 SM 6200B ND H 0.50 0.081 ug/L 1 1,2-Dichloroptopane 156-69-3 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloroptopane<		· -	,	95-50-1	SM 6200B	ND	Н	0.50	0.17	ug/L	1
1,4-Dichlorobenzene 106-46-7 SM 6200B ND H 0.50 0.17 ug/L 1 Dichlorodifluoromethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1 1,1-Dichloroethane 75-34-3 SM 6200B ND H 0.50 0.054 ug/L 1 1,2-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,1-Dichloroethene 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 cis-1,2-Dichloroethene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroptopane 78-87-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichlor	•			541-73-1	SM 6200B	ND	Н	0.50	0.17	ug/L	1
Dichlorodifluoromethane 75-71-8 SM 6200B ND H 0.50 0.071 ug/L 1					SM 6200B	ND	Н	0.50	0.17	ug/L	1
1,1-bickindorderinate 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,1-Dichloroethane 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 1,1-Dichloroethane 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroethane 156-60-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropane 563-58-6 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 trans-1,3-Dichloropropene 10061-01-5 SM 6200B </td <td></td> <td></td> <td></td> <td>75-71-8</td> <td>SM 6200B</td> <td>ND</td> <td>Н</td> <td>0.50</td> <td>0.071</td> <td>ug/L</td> <td>1</td>				75-71-8	SM 6200B	ND	Н	0.50	0.071	ug/L	1
1,2-Dichloroethane 107-06-2 SM 6200B ND H 0.50 0.023 ug/L 1 1,1-Dichloroethene 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 cis-1,2-Dichloroethene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.019 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.074 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Di	1.1-Di	chloroethane		75-34-3	SM 6200B	ND	Н	0.50	0.054	ug/L	1
1,1-Dichloroethene 75-35-4 SM 6200B ND H 0.50 0.094 ug/L 1 cis-1,2-Dichloroethene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1	•			107-06-2	SM 6200B	ND	Н	0.50	0.023	ug/L	1
cis-1,2-Dichloroethene 156-59-2 SM 6200B ND H 0.50 0.087 ug/L 1 trans-1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.018 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 0.50 0.17 ug/L 1 Ethy				75-35-4	SM 6200B	ND	Н	0.50	0.094	ug/L	1
trans-1,2-Dichloroethene 156-60-5 SM 6200B ND H 0.50 0.079 ug/L 1 1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 0.50 0.052 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutad	•			156-59-2	SM 6200B	ND	Н	0.50	0.087	ug/L	1
1,2-Dichloropropane 78-87-5 SM 6200B ND H 0.50 0.081 ug/L 1 1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene)<				156-60-5	SM 6200B	ND	Н	0.50	0.079	ug/L	1
1,3-Dichloropropane 142-28-9 SM 6200B ND H 0.50 0.019 ug/L 1 2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1				78-87-5	SM 6200B	ND	Н	0.50	0.081	ug/L	1
2,2-Dichloropropane 594-20-7 SM 6200B ND H 0.50 0.060 ug/L 1 1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1		• •			SM 6200B	ND	Н	0.50	0.019		1
1,1-Dichloropropene 563-58-6 SM 6200B ND H 0.50 0.074 ug/L 1 cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1		• •			SM 6200B	ND	Н	0.50	0.060		1
cis-1,3-Dichloropropene 10061-01-5 SM 6200B ND H 0.50 0.090 ug/L 1 trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1		• •				ND	н	0.50	0.074	ug/L	1
trans-1,3-Dichloropropene 10061-02-6 SM 6200B ND H 0.50 0.18 ug/L 1 Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1	-					ND	Н	0.50	0.090	ug/L	1
Diisopropyl ether (IPE) 108-20-3 SM 6200B ND H 0.50 0.052 ug/L 1 Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1			e			ND	Н	0.50	0.18	ug/L	1
Ethanol 64-17-5 SM 6200B ND H 100 33 ug/L 1 Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1			~						0.052	_	1
Ethylbenzene 100-41-4 SM 6200B ND H 0.50 0.17 ug/L 1 Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1										-	1
Hexachlorobutadiene 87-68-3 SM 6200B ND H 0.50 0.17 ug/L 1 Isopropylbenzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1								0.50	0.17		1
Isopropy benzene (Cumene) 98-82-8 SM 6200B ND H 0.50 0.029 ug/L 1										•	1
address, and a second s			ene)							-	1
	•		,							_	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

* = Reportable result (only when report all runs)

Q = Surrogate failure

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure S = MS/MSD failure

Client: NCDENR-DWM-UST Section

Description: TW-3

Date Sampled: 10/04/2012 1030 Date Received: 10/10/2012

Laboratory ID: NJ10022-001

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 6200B		•		n Analysis Date Analyst 10/18/2012 1948 BDC		Prep Date		Batch 95669			
Paran	neter				lytical ethod	Result	Q	PQL	MDL	Units	Run
Methy	I tertiary butyl ether	(MTBE)	1634-0	04-4 SM	6200B	NĎ	Н	0.50	0.019	ug/L	1
Methy	lene chloride		75-0	09-2 SM	6200B	ND	Н	0.50	0.17	ug/L	1
Napht	halene		91-2	20-3 SM	6200B	ND	H	0.50	0.17	ug/L	1
n-Proj	oylbenzene		103-6	55-1 SM	6200B	ND	Н	0.50	0.024	ug/L	1
Styrer	ne		100-4	12-5 SM	6200B	ND	H	0.50	0.015	ug/L	1
1,1,1,	2-Tetrachloroethane	;	630-2	20-6 SM	6200B	ND	Н	0.50	0.057	ug/L	1
1,1,2,	2-Tetrachloroethane	•	79-	34-5 SM	6200B	ND	Н	0.50	0.013	ug/L	1
Tetrac	chloroethene		127-1	18-4 SM	6200B	ND	Н	0.50	0.014	ug/L	1
Tolue	ne		108-8	38-3 SM	6200B	ND	Н	0.50	0.17	ug/L	1
1,1,2-	Trichloro-1,2,2-Triflu	ioroethane	76-	13-1 SM	6200B	ND	LH	0.50	0.30	ug/L	1

1,2,3-Trichlorobenzene	87-61-6	SM 6200B	ND	H 0.	50 0.17	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	SM 6200B	ND	H 0.	50 0.17	ug/L	1
1,1,1-Trichloroethane	71-55-6	SM 6200B	ND	H 0.	50 0.029	ug/L	1
1,1,2-Trichloroethane	79-00-5	SM 6200B	ND	H 0.	50 0.031	ug/L	1
Trichloroethene	79-01 - 6	SM 6200B	ND	H 0.	50 0.024	ug/L	1
Trichlorofluoromethane	75-69-4	SM 6200B	ND	H 0.	50 0.051	ug/L	1
1,2,3-Trichloropropane	96-18-4	SM 6200B	ND	H 0.	50 0.33	ug/L	1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	SM 6200B	ND	H 0.	50 0.17	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	SM 6200B	ND	H 0.	50 0.17	ug/L	1
Vinyl chloride	75-01-4	SM 6200B	ND	H 0.	50 0.065	ug/L	1
m+p - Xylenes	179601-23-1	SM 6200B	ND	H 0.	50 0.17	ug/L	1
o - Xylenes	95-47-6	SM 6200B	ND	H 0.	50 0.17	ug/L	1

Surrogate	Q	Run 1 A % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	Н	104	52-138
Bromofluorobenzene	Н	100	70-147
Toluene-d8	Н	91	76-125

* = Reportable result (only when report all runs)

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ95669-001

Batch: 95669

Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	0.50	0.027	ug/L	10/18/2012 1924
Bromobenzene	ND		1	0.50	0.027	ug/L	10/18/2012 1924
Bromochloromethane	ND		1	0.50	0.055	ug/L	10/18/2012 1924
Bromodichloromethane	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Bromoform	ND		1	0.50	0.010	ug/L	10/18/2012 1924
Bromomethane (Methyl bromide)	ND		1	0.50	0.20	ug/L	10/18/2012 1924
tert-Butylbenzene	ND		1	0.50	0.037	ug/L	10/18/2012 1924
sec-Butylbenzene	ND		1	0.50	0.010	ug/L	10/18/2012 1924
n-Butylbenzene	ND		1	0.50	0.017	ug/L	10/18/2012 1924
Carbon tetrachloride	ND		1	0.50	0.085	ug/L	10/18/2012 1924
Chlorobenzene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Chloroethane	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Chloroform	0.18	J	1	0.50	0.17	ug/L	10/18/2012 1924
Chloromethane (Methyl chloride)	ND	_	1	0.50	0.17	ug/L	10/18/2012 1924
4-Chlorotoluene	ND		1	0.50	0.019	ug/L	10/18/2012 1924
2-Chlorotoluene	ND		1	0.50	0.059	ug/L	10/18/2012 1924
Dibromochloromethane	ND		1	0.50	0.17	ug/L	10/18/2012 1924
1,2-Dibromoethane (EDB)	ND		1	0.50	0.061	ug/L	10/18/2012 1924
Dibromomethane (Methylene bromide)	ND		1	0.50	0.094	ug/L	10/18/2012 1924
1.4-Dichlorobenzene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
1,3-Dichlorobenzene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
1,2-Dichlorobenzene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Dichlorodifluoromethane	ND		1	0.50	0.071	ug/L	10/18/2012 1924
1,2-Dichloroethane	ND		1	0.50	0.023	ug/L	10/18/2012 1924
1,1-Dichloroethane	ND		1	0.50	0.054	ug/L	10/18/2012 1924
trans-1,2-Dichloroethene	ND		1	0.50	0.079	ug/L	10/18/2012 1924
cis-1,2-Dichloroethene	ND		1	0.50	0.087	ug/L	10/18/2012 1924
1,1-Dichloroethene	ND		1	0.50	0.094	ug/L	10/18/2012 1924
2,2-Dichloropropane	ND		1	0.50	0.060	ug/L	10/18/2012 1924
1,3-Dichloropropane	ND		1	0.50	0.019	ug/L	10/18/2012 1924
1,2-Dichloropropane	ND		1	0.50	0.081	ug/L	10/18/2012 1924
trans-1,3-Dichloropropene	ND		1	0.50	0.18	ug/L	10/18/2012 1924
cis-1,3-Dichloropropene	ND		1	0.50	0.090	ug/L	10/18/2012 1924
1,1-Dichloropropene	ND		1	0.50	0.074	ug/L	10/18/2012 1924
Diisopropyl ether (IPE)	ND		1	0.50	0.052	ug/L	10/18/2012 1924
Ethanol	ND		1	100	33	ug/L	10/18/2012 1924
Ethylbenzene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Hexachlorobutadiene	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Isopropylbenzene (Cumene)	ND		1	0.50	0.029	ug/L	10/18/2012 1924
p-Isopropyltoluene (p-Cymene)	ND		1	0.50	0.018	ug/L	10/18/2012 1924
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.019	ug/L	10/18/2012 1924
Methylene chloride	ND		1	0.50	0.17	ug/L	10/18/2012 1924
Naphthalene	0.22	J	1	0.50	0.17	ug/L	10/18/2012 1924
, , , , , , , , , , , , , , , , , , ,		-	•		0.024	ug/L	10/18/2012 1924

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ95669-001

Batch: 95669

Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

Resul		Q Di	l PQL	MDL	Units	Analysis Date
ND		1	0.50	0.015	ug/L	10/18/2012 1924
ND		1	0.50	0.013	ug/L	10/18/2012 1924
ND		1	0.50	0.057	ug/L	10/18/2012 1924
ND		1	0.50	0.014	ug/L	10/18/2012 1924
ND		1	0.50	0.17	ug/L	10/18/2012 1924
ND		1	0.50	0.30	ug/L	10/18/2012 1924
ND		1	0.50	0.17	ug/L	10/18/2012 1924
0.25		J 1	0.50	0.17	ug/L	10/18/2012 1924
ND		1	0.50	0.031	ug/L	10/18/2012 1924
ND		1	0.50	0.029	ug/L	10/18/2012 1924
ND		1	0.50	0.024	ug/L	10/18/2012 1924
ND		1	0.50	0.051	ug/L	10/18/2012 1924
ND		1	0.50	0.33	ug/L	10/18/2012 1924
ND		1	0.50	0.17	ug/L	10/18/2012 1924
NĐ		1	0.50	0.17	ug/L	10/18/2012 1924
ND		1	0.50	0.065	ug/L	10/18/2012 1924
ND		1	0.50	0.17	ug/L	10/18/2012 1924
ND		1	0.50	0.17	ug/L	10/18/2012 1924
Q	% Rec	Acceptan Limit	ce			
	101	70-147				
	96	52-138				
	99	76-125				
	ND N	ND N	ND 1	ND 1 0.50	ND 1 0.50 0.013 ND 1 0.50 0.057 ND 1 0.50 0.014 ND 1 0.50 0.17 ND 1 0.50 0.30 ND 1 0.50 0.17 ND 1 0.50 0.17 ND 1 0.50 0.31 ND 1 0.50 0.029 ND 1 0.50 0.029 ND 1 0.50 0.024 ND 1 0.50 0.051 ND 1 0.50 0.051 ND 1 0.50 0.17 ND 1 0.50 0.17 ND 1 0.50 0.17 ND 1 0.50 0.051 ND 1 0.50 0.17 ND 1 0.50 0.17	ND 1 0.50 0.013 ug/L ND 1 0.50 0.057 ug/L ND 1 0.50 0.014 ug/L ND 1 0.50 0.17 ug/L ND 1 0.50 0.30 ug/L ND 1 0.50 0.17 ug/L ND 1 0.50 0.17 ug/L ND 1 0.50 0.17 ug/L ND 1 0.50 0.01 ug/L ND 1 0.50 0.031 ug/L ND 1 0.50 0.029 ug/L ND 1 0.50 0.024 ug/L ND 1 0.50 0.051 ug/L ND 1 0.50 0.17 ug/L

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ95669-002 Batch: 95669 Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

Baramatar	Spike Amount	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Parameter	(ug/L)		<u> </u>	1	87	70-130	10/18/2012 1632
Benzene	50	44		1	93	70-130	10/18/2012 1632
Bromobenzene	50	46		1	93 93	70-130	10/18/2012 1632
Bromochloromethane	50	46			95 95	70-130	10/18/2012 1632
Bromodichloromethane	50	47		1		70-130	10/18/2012 1632
Bromoform	50	52		1	104		
Bromomethane (Methyl bromide)	50	49		1	97	60-140	10/18/2012 1632
tert-Butylbenzene	50	47		1	94	70-130 70-130	10/18/2012 1632 10/18/2012 1632
sec-Butylbenzene	50	46		1	93		10/18/2012 1632
n-Butylbenzene	50	44		1	88	70-130	
Carbon tetrachloride	50	39		1	79	70-130	10/18/2012 1632
Chlorobenzene	50	50		1	99	70-130	10/18/2012 1632
Chloroethane	50	43		1	86	42-163	10/18/2012 1632
Chloroform	50	40		1	80	70-130	10/18/2012 1632
Chloromethane (Methyl chloride)	50	50		1	100	20-158	10/18/2012 1632
4-Chlorotoluene	50	46		1	92	70-130	10/18/2012 1632
2-Chlorotoluene	50	46		1	91	70-130	10/18/2012 1632
Dibromochloromethane	50	51		1	103	70-130	10/18/2012 1632
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	10/18/2012 1632
Dibromomethane (Methylene bromide)	50	4 5		1	90	70-130	10/18/2012 1632
1,4-Dichlorobenzene	50	48		1	95	70-130	10/18/2012 1632
1,3-Dichlorobenzene	50	48		1	96	70-130	10/18/2012 1632
1,2-Dichlorobenzene	50	46		1	93	70-130	10/18/2012 1632
Dichlorodifluoromethane	50	45		1	90	60-140	10/18/2012 1632
1,2-Dichloroethane	50	44		1	89	70-130	10/18/2012 1632
1,1-Dichloroethane	50	42		1	83	70-130	10/18/2012 1632
trans-1,2-Dichloroethene	50	39		1	77	70-130	10/18/2012 1632
cis-1,2-Dichloroethene	50	41		1	82	70-130	10/18/2012 1632
1,1-Dichloroethene	50	35		1	70	70-130	10/18/2012 1632
2,2-Dichloropropane	50	35		1	70	70-130	10/18/2012 1632
1,3-Dichloropropane	50	52		1	104	70-130	10/18/2012 1632
1,2-Dichloropropane	50	49		1	97	70-130	10/18/2012 1632
trans-1,3-Dichloropropene	50	48		1	97	70-130	10/18/2012 1632
cis-1,3-Dichloropropene	50	51		1	101	70-130	10/18/2012 1632
1,1-Dichloropropene	50	42		1	83	70-130	10/18/2012 1632
Diisopropyl ether (IPE)	50	44		1	89	70-130	10/18/2012 1632
	5000	4800		1	95	40-130	10/18/2012 1632
Ethanol	5000	48		1	96	70-130	10/18/2012 1632
Ethylbenzene	50 50	47		1	94	70-130	10/18/2012 1632
Hexachlorobutadiene		48		1	96	70-130	10/18/2012 1632
Isopropylbenzene (Cumene)	50 50	46 46		1	92	70-130	10/18/2012 1632
p-Isopropyltoluene (p-Cymene)		47		1	95	70-130	10/18/2012 1632
Methyl tertiary butyl ether (MTBE)	50			1	87	70-130	10/18/2012 1632
Methylene chloride	50	44		1	105	50-140	10/18/2012 1632
Naphthalene	50	53				70-130	10/18/2012 1632
n-Propylbenzene	50	46		1	92	70-130	10/10/2012 1032

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ95669-002

Batch: 95669

Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Styrene	50	50		1	101	70-130	10/18/2012 1632
1,1,2,2-Tetrachloroethane	50	50		1	100	70-130	10/18/2012 1632
1,1,1,2-Tetrachloroethane	50	46		1	92	70-130	10/18/2012 1632
Tetrachloroethene	50	46		1	92	70-130	10/18/2012 1632
Toluene	50	48		1	95	70-130	10/18/2012 1632
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	25	N	1	50	70-130	10/18/2012 1632
1,2,4-Trichlorobenzene	50	52		1	104	70-130	10/18/2012 1632
1,2,3-Trichlorobenzene	50	49		1	98	70-130	10/18/2012 1632
1,1,2-Trichloroethane	50	49		1	98	70-130	10/18/2012 1632
1,1,1-Trichloroethane	50	40		1	80	70-130	10/18/2012 1632
Trichloroethene	50	44		1	88	70-130	10/18/2012 1632
Trichlorofluoromethane	50	42		1	83	60-140	10/18/2012 1632
1,2,3-Trichloropropane	50	49		1	97	70-130	10/18/2012 1632
1,2,4-Trimethylbenzene	50	47		1	93	70-130	10/18/2012 1632
1,3,5-Trimethylbenzene (Mesitylene)	50	49		1	98	70-130	10/18/2012 1632
Vinyl chloride	50	44		1	88	60-140	10/18/2012 1632
o - Xylenes	50	48		1	96	70-130	10/18/2012 1632
m+p - Xylenes	50	46		1	93	70-130	10/18/2012 1632
Surrogate	Q % Rec	Accepta Limi		<u> </u>			
Bromofluorobenzene	98	70-14	17				
1,2-Dichloroethane-d4	98	52-13	38				
Toluene-d8	100	76-12	25				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ95669-003

Batch: 95669

Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

	Spike								
_	Amount	Result	_		0/ D	4/ BBB	% Rec	% RPD	Analysis Dato
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	% RPD	Limit	Limit	Analysis Date
Benzene	50	44		1	88	0.97	70-130	20	10/18/2012 1657
Bromobenzene	50	47		1	93	0.71	70-130	20	10/18/2012 1657
Bromochloromethane	50	49		1	98	5.5	70-130	20	10/18/2012 1657
Bromodichloromethane	50	46		1	91	4.2	70-130	20	10/18/2012 1657
Bromoform	50	50		1	100	3.6	70-130	20	10/18/2012 1657
Bromomethane (Methyl bromide)	50	54		1	109	11	60-140	20	10/18/2012 1657
tert-Butylbenzene	50	47		1	93	1.2	70-130	20	10/18/2012 1657
sec-Butylbenzene	50	48		1	95	2.9	70-130	20	10/18/2012 1657
n-Butylbenzene	50	45		1	89	1.8	70-130	20	10/18/2012 1657
Carbon tetrachloride	50	44		1	88	12	70-130	20	10/18/2012 1657
Chlorobenzene	50	47		1	94	4.9	70-130	20	10/18/2012 1657
Chloroethane	50	48		1	95	10	42-163	20	10/18/2012 1657
Chloroform	50	44		1	89	10	70-130	20	10/18/2012 1657
Chloromethane (Methyl chloride)	50	55		1	110	9.6	20-158	20	10/18/2012 1657
4-Chlorotoluene	50	47		1	94	2.2	70-130	20	10/18/2012 1657
2-Chlorotoluene	50	46		1	93	1.5	70-130	20	10/18/2012 1657
Dibromochloromethane	50	50		1	101	2.3	70-130	20	10/18/2012 1657
1,2-Dibromoethane (EDB)	50	50		1	101	1.2	70-130	20	10/18/2012 1657
Dibromomethane (Methylene bromide)	50	45		1	91	0.94	70-130	20	10/18/2012 1657
	50	46		1	92	3.1	70-130	20	10/18/2012 1657
1,4-Dichlorobenzene	50	47		1	94	1.7	70-130	20	10/18/2012 1657
1,3-Dichlorobenzene		47		1	94	1.2	70-130	20	10/18/2012 1657
1,2-Dichlorobenzene	50			1	99	9.5	60-140	20	10/18/2012 1657
Dichlorodifluoromethane	50	49 46		1	93	9.5 4.6	70-130	20	10/18/2012 1657
1,2-Dichloroethane	50	46			93 90	8.5	70-130	20	10/18/2012 1657
1,1-Dichloroethane	50	45		1			70-130	20	10/18/2012 1657
trans-1,2-Dichloroethene	50	43		1	87	12			
cis-1,2-Dichloroethene	50	44		1	88	7.2	70-130	20	10/18/2012 1657
1,1-Dichloroethene	50	37		1	75	6.5	70-130	20	10/18/2012 1657
2,2-Dichloropropane	50	37		1	74	5.7	70-130	20	10/18/2012 1657
1,3-Dichloropropane	50	49		1	98	5.6	70-130	20	10/18/2012 1657
1,2-Dichloropropane	50	49		1	97	0.031	70-130	20	10/18/2012 1657
trans-1,3-Dichloropropene	50	50		1	100	3.6	70-130	20	10/18/2012 1657
cis-1,3-Dichloropropene	50	50		1	100	1.1	70-130	20	10/18/2012 1657
1,1-Dichloropropene	50	44		1	88	5.4	70-130	20	10/18/2012 1657
Diisopropyl ether (IPE)	50	44		1	88	0.73	70-130	20	10/18/2012 1657
Ethanol	5000	5100		1	102	6.2	40-130	20	10/18/2012 1657
Ethylbenzene	50	49		1	99	3.0	70-130	20	10/18/2012 1657
Hexachlorobutadiene	50	49		1	97	3.9	70-130	20	10/18/2012 1657
Isopropylbenzene (Cumene)	50	50		1	99	2.9	70-130	20	10/18/2012 1657
p-Isopropyltoluene (p-Cymene)	50	49		1	98	6.0	70-130	20	10/18/2012 1657
Methyl tertiary butyl ether (MTBE)	50	47		1	94	0.73	70-130	20	10/18/2012 1657
Methylene chloride	50	46		1	92	5.3	70-130	20	10/18/2012 1657
Naphthalene	50	56		1	112	6.3	50-140	20	10/18/2012 1657
-	50	48		1	96	4.6	70-130	20	10/18/2012 1657
n-Propylbenzene	JU	70		'					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ95669-003

Batch: 95669

Matrix: Aqueous Prep Method: 6200B

Analytical Method: SM 6200B

Parameter	Spike Amou (ug/L	nt Res	sult _I /L) Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Styrene	50	<u>/ ៶==</u> 51	, -, -,	1	102	0.86	70-130	20	10/18/2012 1657
1.1.2.2-Tetrachloroethane	50	48		1	96	4.3	70-130	20	10/18/2012 1657
1,1,1,2-Tetrachloroethane	50	46		1	93	0.24	70-130	20	10/18/2012 1657
Tetrachloroethene	50	46		1	92	0.63	70-130	20	10/18/2012 1657
Toluene	50	46		1	93	2.7	70-130	20	10/18/2012 1657
1.1.2-Trichloro-1,2,2-Trifluoroethane	50	27	N	1	54	7.8	70-130	20	10/18/2012 1657
1,2,4-Trichlorobenzene	50	52		1	104	0.39	70-130	20	10/18/2012 1657
1,2,3-Trichlorobenzene	50	50		1	101	2.8	70-130	20	10/18/2012 1657
1,1,2-Trichloroethane	50	49		1	98	0.38	70-130	20	10/18/2012 1657
1,1,1-Trichloroethane	50	44		1	87	8.5	70-130	20	10/18/2012 1657
Trichloroethene	50	45		1	91	3.6	70-130	20	10/18/2012 1657
Trichlorofluoromethane	50	46		1	92	10	60-140	20	10/18/2012 1657
1,2,3-Trichloropropane	50	48		1	97	0.30	70-130	20	10/18/2012 1657
1.2.4-Trimethylbenzene	50	48		1	96	2.5	70-130	20	10/18/2012 1657
1,3,5-Trimethylbenzene (Mesitylene)	50	46		1	92	5.9	70-130	20	10/18/2012 1657
Vinyl chloride	50	48		1	97	8.8	60-140	20	10/18/2012 1657
o - Xylenes	50	48		1	96	0.046	70-130	20	10/18/2012 1657
m+p - Xylenes	50	49		1	98	5.7	70-130	20	10/18/2012 1657
Surrogate	Q	% Rec	Acceptance Limit						<u> </u>
Bromofluorobenzene		98	70-147						
1,2-Dichloroethane-d4		93	52-138						
Toluene-d8		97	76-125						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MOL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Ballle (See Instituctions on back) N. J/1022 DLOKnown Tamp, Stank D * (□ N Remarks / Occier 1D Number of Containers Preservative Lot No. ੋਂ E Pages 29930 Chole Mc Ē in the Ë T10 Post ô Mon-Hazard OF armrable I Sen in land Number Possible Hazard Identification acup: Temp [__ رن زن anc Date Date Feder 1. 261/# 3005 520+445/ TNe O'Ce Pack David Knogethowsk Telephone No. (803) 791-9700 Fax No. (803) 791-9111 Shealy Environmental Services, Inc. Sampler (Pointed Vame) West Culumbia, South Carolina 29172 () () OC Requirements (Specify) 4. Urboratory Psychysid by 105 Vantage Point Drive (қанд) ең дәремеску www.shoa ylab.com TAB USE CMLY U. Na polyacid by Received by 381 803 BRILL X Dispersal by Lati B 5050 SISAJRUŲ 5005 Liberat France, transfer Note: All samples are retained for six weeks from receipt 16.40 iller. E E927 υQ elechony Moly Fax Mc. / Email × JIPI D.33/38/05/ Sample Linguistal Perior to Clean unless other arrangements are made. 12/4/01 हैं भीता जिल्ह ੈਂ ¥. Penulta Cochan 3) 66 C) 300 თვიძი. ბუ=ე Preservative وي ดูยเกาะก 2. NECHOLS Im Arear of Time Required. (Prior lab approve, required for expedited TAT) 7 First A 2.18804 Ľ Chain of Custody Record <u>c</u>_ 大ろり P.O. Number 10/4/12 HE. 2500 Zip Corbs Can ford Copy is any and 1 Right Phase Specific Carrainers for each sample may be State Relim<u>iliisiish ay Bermpler</u> Sangle IB? Descriplier S. Dies Heer & अमित्रहरीय अस्तिम् Ry oquiglised by Refriquished by 4. Reinquared by Project Number 1 Project Márcie T-lowers Standen ZHEAL S Chent

SHEALY ENVIRONMENTAL SERVICES, INC.

Sheals, Fire or simontal Services, inc Page of Replaces Dain 05/060. Depument Number | F-4.0-016 Officetive Date 16/11/13 Revision Number 9. Sample Receipt Checklist (SRC), /NEDENKCooler inspected by/date: ECL /0/10/12 Lot # NS/0012 □ SESI 🗒 Client UPS FedEx Airborne Exp ☐ Other Means of receipting المراز العميدي العميدي Were enstody seals present on the cooler? If custody seals were present, were they intact and unbroken? Not у°C -Cooler ID/temperature upon receipt_ Method: Temperature Blank Against Bottles Wet Ice Method of coolant. Blue ice Dry Icc None If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided. 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: coolers received via commercial courier. PMs are to be notified immediately. Is the commercial courier's packing slip attached to this form? Yes Yes No. Were proper custody procedures (relinquished/received) followed? 5a Were samples relinquished by client to commercial courier? Yes lo4 NAYes No. Were sample IDs listed? Was collection date & time listee? Y23 Nof Were tests to be performed listed on the COC? 1 25 No l Did all samples arrive in the proper containers for each test? Yes Not Yes Not [0] Did all container label information (ID, date, time) agree with COC? 11. D.d all containers arrive in good condition (unbroken, "ds on, etc. §? Νo Yes 🗹 Was adequate sample volume available? No 13 Were all samples received within 1/3 the holding time or 48 hours, whichever Yes 🗍 No 📶 comes (inst?) nes E Were any samples continuers missing? Yus [15 Were there any excess samples not listed on CCC? 16. Were bubbles presen: >"pea-size" (%"or 6mm in diameter; in any VOA No 🗂 Mas 🔲 ħА [_] vials? NAF 17 Were all metals/O&G/HEM/nutrient samples received at a p11 of <22 18. Were all evanide and/or sulfine samples received at a pH >12? 5.5 Were all applicable NH3/TKN/cyanide/pheno//BNA/pest/PCB/herp Y 23 No (<0.2mg/L) samples free of residual chloring? Y24 30. Were collection temperatures documented on the COC for NC samples? 2). Were obent romarks/leonests (i.e. requested dimerons, MS/MSD designations, Yes etc... a correctly transcribed from the COC into the comment section in LTMS? Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) were received incorrectly preserved and were adjusted according v in sample receiving with $_{1}(\mathrm{H}_{2}\mathrm{SO}_{2}\mathrm{LINO}_{3}\mathrm{HCLNsOH})$ with the SR # (number) Sample(s) were received with builbles >6 mm in diameter. Samplerati were received with TRC >0.2 mg/L for NH5. KN/cvanide/BNA/past/PCB/herb. Corrective Action taken, if necessary: Was chan natified. Yes [No F Did chent responds Yes 🔛 No 🖂 SESt employee. Date of response: Comments.

APPENDIX C

Field Notes

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NC Registered Engineering Firm F-1078 NC Registered Geologists Firm C-406 SC Registered Engineering Firm 3239

March 2, 2016

Mr. Mark Petermann NCDEQ, Division of Waste Management, UST Section 1637 Mail Service Center Raleigh, North Carolina 27699-1637

Reference: Report of Environmental Services – Flowers Store Property

4181 NC Highway 42 East

Clayton, Johnston County, North Carolina

NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C ECS Project: 49:1226

Dear Mr. Petermann:

As authorized by your acceptance of ECS Carolinas, LLP (ECS) Task Authorization Request #4 (TAR #4) dated January 21, 2016, ECS has completed the Report of Environmental Services for the above-referenced site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations. Information regarding the owner of former underground storage tank (UST), current property owner, contacts, consultant, laboratory, release information, and latitude and longitude are presented below.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us at (919) 861-9910.

Sincerely,

ECS CAROLINAS, LLP

Matthew Sillis

Matthew Gillis

Environmental Project Manager

mgillis@ecslimited.com

919-861-9845

C. Brian Smith, P.G. Principal Geologist bsmith@ecslimited.com

919-861-9850

Report of Environmental Services – Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina

NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C

March 2, 2016

SITE INFORMATION

Date of Report: March 2, 2016

Facility I.D.: Unknown UST Incident No.: 12704 Site Rank: High

Land Use Category: Vacant – Two Buildings are located on the property

Site Name and Location: Flowers Store Property

4181 NC Highway 42 East

Clayton, Johnson County, North Carolina

Location Method: Google Earth

Latitude and Longitude: 36.651793° North, -78.360938° West

Contacts

Primary Contact: Ms. Jana Guertler

526 Powell Road

Raleigh, North Carolina 27606

(919) 622-8385

Consultant: ECS Carolinas, LLP

9001 Glenwood Avenue

Raleigh, North Carolina 27617

(919) 861-9910 Attn: Matthew Gillis

Laboratory: Pace Analytical Services, Inc.

9800 Kincey Ave, Suite 100

Huntersville, North Carolina 28078

(704) 875-9092

NC Certification No. 12

Report of Environmental Services – Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C March 2, 2016

A release at the subject site is associated with one 8,000-gallon gasoline UST, one 6,000-gallon diesel UST, and one 1,000-gallon kerosene/diesel UST, which were removed from the site in August 1994, and one 1,000-gallon gasoline UST, which was removed from the site in April 2006.

On January 26, 2016, ECS collected groundwater samples from monitoring wells MW-3, MW-5, MW-7, MW-8, MW-9, and MW-10. ECS also collected groundwater samples from water supply wells WSW-2, WSW-4 and WSW-5. The properties associated with water supply wells WSW-3, and WSW-6 were unoccupied; therefore groundwater samples were not collected.

Seal and Signature of Certifying Licensed Geologist

I, C. Brian Smith, P.G., a Licensed Geologist for ECS Carolinas, LLP, do certify that the information contained in this report is correct and accurate to the best of my knowledge.

C. Brian Smith, P.G. NC License No. 2241

ECS Carolinas, LLP is permitted to practice geology lengineering in North Carolina. The certification number of the corporation is F-1078.

Report of Environmental Services – Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C March 2, 2016

EXECUTIVE SUMMARY

The subject site is known as the Flowers Store Property and is located at 4181 NC Highway 42 East in Clayton, Johnson County, North Carolina. The subject site is further identified by Johnson County Geographic Information Systems (GIS) Parcel Identification Number (PIN) 168900-92-5990.

On January 26, 2016, ECS collected groundwater samples from six existing monitoring wells (MW-3, MW-5, MW-7, MW-8, MW-9, and MW-10). ECS also collected groundwater samples from three water supply wells (WSW-2, WSW-4, and WSW-5). The properties associated with the water supply wells (WSW-3 and WSW-6) were unoccupied; therefore groundwater samples were not collected.

Laboratory analysis reported naphthalene at a concentration above its North Carolina 2L Groundwater Quality Standards (NC2LGWQS) but below its Gross Contamination Level (GCL) in the groundwater sample collected from monitoring well MW-9.

Laboratory analysis reported bromodichloromethane and dibromochloromethane at concentrations above their respective NC2LGWQS but below their respective GCLs in the groundwater samples collected from water supply wells WSW-2 and WSW-4.

Laboratory analysis reported 1,2-dichloropropane at a concentration above its NC2LGWQS but below its GCL in the groundwater sample collected from water supply well WSW-5.

Laboratory analysis reported several additional targeted analytes above their respective laboratory reporting limits but below their NC2LGWQS in the groundwater samples collected from monitoring wells MW-9 and water supply wells WSW-2 and WSW-4.

Laboratory analysis did not report targeted analytes at concentrations above the laboratory reporting limits in the groundwater samples collected from monitoring wells MW-3, MW-5, MW-7, MW-8, and MW-10.

ECS recommends conducting a groundwater sampling event at the site and conduct contamination transport modeling to assess the potential migration of the contamination plume for monitoring well MW-9 and its relation to area water supply wells in April 2016. Once the modeling is complete and assuming area water supply wells will not be impacted, a Notice of Residual Petroleum (NRP) for groundwater contamination should be submitted for the site and the NCDEQ should consider issuing a letter of No Further Action (NFA).

Report of Environmental Services – Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C

March 2, 2016

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Report of Environmental Services – Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217 NCDEQ Contract: N14007i-C March 2, 2016

SITE HISTORY

The Flowers Store Property is located at 4181 NC Highway 42 East in Clayton, Johnson County, North Carolina (Figures 1 and 2). According to a 1994 UST Closure Report prepared by Froehling & Robertson Inc. (F&R), the site was formerly utilized as a gasoline station and auto repair service facility. On August 29, 1994, one 8,000-gallon gasoline UST (UST-1), one 1,000-gallon kerosene/diesel UST (UST-2), and one 6,000-gallon diesel UST (UST-3), along with associated piping/equipment were removed by Action Oil Equipment Company. A summary of the former UST information for the site is included in Table 1. Based on the analytical results of the soil samples, releases were reported beneath UST-2 and UST-3. The laboratory reported Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) and TPH-Diesel Range Organics (TPH-DRO) at concentrations above their respective North Carolina Department of Environmental Quality (NCDEQ) UST Section's Action Level of 10 mg/kg. TPH-GRO was reported at concentrations ranging from 567 mg/kg to 2,900 mg/kg. TPH-DRO concentrations ranged from 18.6 mg/kg to 11,100 mg/kg. Contaminated soils were not removed from the site and groundwater samples were not collected during UST closure activities.

On February 17, 2006, Agra Environmental, Inc. (AGRA) conducted an Initial Site Visit and Site Receptor Survey. Agra identified one building on the subject site that was used as a repair garage and was being used for storage. A sump was observed, which possibly was used as an oil/water separator, near the rear of the garage. Metal debris, including appliances, tanks, and vehicles were scattered throughout the wooded area along the northern boundary of the subject site. AGRA also documented that an additional UST (UST-4) was discovered near the southeastern corner of the subject site. AGRA identified four potential water supply wells within 1,500 feet of the subject site and a pond located on the adjacent property to the northeast of the site.

A 2006 *UST Closure Report*, prepared by AGRA, indicates AGRA removed one 1,000-gallon UST from the southeastern corner of the subject site. AGRA did not observe contaminated soil in the UST excavation. However, two 55-gallon drums of contaminated soil associated with spillage of residual sludge from the UST were removed from the subject site. The remaining soils and clean fill were used to backfill the UST excavation. Soil samples were not collected prior to backfill.

AGRA performed a door-to-door survey of the surrounding area on May 22, 2008. A total of six water supply wells (WSW-1, WSW-2, WSW-3, WSW-4, WSW-5, and WSW-6) were identified approximately 525 feet (ft), 525 ft, 1,100 ft, 900 ft, 550 ft, and 1,400 ft from the subject site, respectively. An interview with the owners of water supply wells WSW-1 and WSW-4, indicated that both water supply wells were used as a primary drinking water source and the residence was not connected to the public water supply at that time. An interview with the owners of water supply wells WSW-2 and WSW-3 indicated that both wells were currently disconnected and the properties were connected to the public water supply. Additionally, two water supply wells (WSW-5 and WSW-6) were observed at 160 Motorcycle Road and 270 Motorcycle Road, respectively. The property owners could not be contacted during the site visit or during follow up interviews. AGRA identified 160 Motorcycle Road as a residential property and 270 Motorcycle Road as Pineville Chapel Church.

On June 17, 2008, AGRA conducted an *Initial Groundwater Site Investigation* and collected groundwater samples from water supply wells WSW-1 and WSW-4. The laboratory reported bis

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(2-ethylhexyl) phthalate in water supply well WSW-1 at a concentration above its North Carolina Department of Environment and Natural Resources 2L Groundwater Quality Standard (NC2LGWQS) but below its Gross Contamination Level (GCL). However, AGRA stated that bis (2-ethylhexyl) phthalate is not a petroleum constituent and was believed to be a laboratory contaminant. Bis (2-ethylhexyl) phthalate was also reported above its laboratory reporting limit but below its NC2LGWQS in water supply well WSW-4.

On August 28, 2008, Regional Probing Services installed four temporary monitoring wells (TW-1, TW-2, TW-3 (MW-3), and TW-4) on the subject site using a Geoprobe. The temporary wells were each installed to a depth of 35 feet below the ground surface (ft. bgs) with a screened interval of 15 linear feet. Soil encountered during the well installations was very tight red clay. Soil samples were collected during the installation of each temporary monitoring well at depths of 10 ft. and 20 ft. bgs. The laboratory reported methyl chloride in the soil samples collected from temporary wells TW-3 and TW-4 at concentrations above the Soil-To-Groundwater Maximum Soil Contaminant Concentration (MSCC) standard of 0.02 milligrams per kilogram (mg/kg). Diethyl phthalate was reported in the soil samples collected from TW-2 and TW-3. Di-n-butyl phthalate was reported in soil sample TW-3. Diethyl phthalate and di-n-butyl phthalate do not have an established MSCC standard.

On September 2, 2008, AGRA personnel collected groundwater samples from temporary wells TW-1 through TW-4. Temporary well TW-1 was analyzed for volatile organic compounds (VOCs) using EPA Method 6200B, for semi-volatile organic compounds (SVOCs) using EPA Method 625, and Massachusetts Department of Environmental Protection Extractable Petroleum Hydrocarbons (MADEP EPH), MADEP Volatile Petroleum Hydrocarbons (MADEP VPH), and lead using EPA Method 6010/303C. Groundwater samples were also collected from temporary wells TW-2, TW-3, and TW 4 to be analyzed for VOCs using EPA Method 6200B and MADEP VPH. The laboratory reported lead at a concentration of 250 micrograms per liter (μ g/L) in the groundwater sample collected from temporary well TW-1, which exceeds the NC2LGWQS of 15 μ g/L. Di-n-butyl phthalate was detected in temporary well TW-1 at a concentration of 6.68 μ g/L; however di-n-butyl phthalate does not have a NC2LGWQS. The laboratory did not report additional targeted analytes from the groundwater samples at concentrations exceeding their respective NC2LGWQS.

On February 5, 19, and 25, 2009, Cohesion, Inc. (Cohesion) collected soil samples from numerous locations at the subject site in an attempt to confirm that contaminated soils remain at the subject site. Laboratory analysis reported TPH above the Action Level of 10 mg/kg in soil samples collected near the rear of the garage, adjacent to an old CITGO petroleum tanker that had been discarded in the rear of the property, and near two hydraulic pumps located inside the garage.

On September 30, 2009, AGRA personnel conducted a soil and groundwater sampling event at the site. Three soil borings were advanced in the former UST locations (UST-1 to 12 ft bgs, UST-2 to 8 ft bgs, and UST-3 to 10 ft bgs). Additionally, soil borings were advanced adjacent to the previously installed soil borings B-15 and B-8. Soil samples were collected from B-15 and B-8 at depths of 2 ft bgs and 8 ft bgs. As part of the sampling event, AGRA personnel attempted to collect groundwater samples from the four on-site temporary monitoring wells TW-1, TW-2, TW-3, and TW-4. The temporary wells were previously installed with PVC risers, which extended approximately 1.5 ft above the ground surface. The aboveground risers of temporary wells TW-1

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and TW-2 were broken and TW-4 was dry. The laboratory reported targeted analytes at the subject site in the soil samples collected near the former locations of UST-2 and UST-3, as well as adjacent to the discarded tanker on the rear of the property. However, the analytes reported were below their respective MSCC standards or did not have established MSCC standards. The laboratory reported tetrachloroethene at concentrations of 0.89 μ g/L and 0.71 μ g/L in the groundwater samples collected from TW-1 and TW-2, respectively, which were above the NC2LGWQS of 0.70 μ g/L. Temporary well TW-4 was not sampled. However, targeted analytes were not reported in TW-4 during the sampling event performed on September 2, 2008. Additionally, 1,2-dichloropropane was reported at a concentration of 0.51 μ g/L in water supply well WSW-5, which is below the NC2LGWQS of 0.60 μ g/L.

On October 4, 2012, Crawford Environmental Services (CES) conducted a groundwater monitoring event at the subject site. Temporary monitoring wells TW-1, TW-2, and TW-4 were not located and were presumed destroyed. CES observed six water supply wells within 1,500 feet of the subject site (WSW-1 through WSW-6). Based on discussions with the property owner, the home associated with water supply well WSW-1 had been connected to municipal water and the well had been abandoned. The properties utilizing water supply wells WSW-2 and WSW-3 were also connected to municipal water. Water supply wells WSW-4 through WSW-6 were still actively used as a water supply source. CES collected a groundwater sample from temporary well TW-3 and the laboratory did not report targeted analytes above the laboratory reporting limit.

Information contained in a March 26, 2013 *Groundwater Monitoring Report* prepared by CES, indicates that on February 13 and 14, 2013, CES installed two permanent monitoring wells (MW-5 and MW-7) at the subject site. CES collected groundwater samples from temporary well TW-3 and monitoring wells MW-5, and MW-7. The laboratory reported several targeted analytes at concentrations above their respective laboratory reporting limits, but below their respective NC2LGWQS. Additionally, CES collected soil samples at depths of 8 ft bgs, 13 ft bgs, and 23 ft bgs during the installation of monitoring well MW-5. The laboratory reported C9-C22 Aromatics at a concentration above the MSCC in the soil sample collected from MW-5 at 23 ft bgs. The laboratory reported several additional targeted analytes at concentrations above the laboratory reporting limits, but below their respective MSCCs. The results of this soil sampling are summarized in Table 6.

On August 13, 2014, ECS collected two groundwater samples from monitoring wells MW-5 and MW-7. Monitoring well MW-3 was filled with dirt; therefore, a groundwater sample was not collected. Additionally, ECS collected groundwater samples from water supply wells WSW-4, WSW-5, and WSW-6. The laboratory reported several analytes at concentrations above their respective laboratory reporting limit in the groundwater samples collected from the site monitoring wells. Additionally, the laboratory reported several analytes at concentrations above the laboratory reporting limit in the groundwater samples collected from water supply wells WSW-4 and WSW-5.

On June 11 and 12, 2015, ECS installed three monitoring wells (MW-8 through MW-10), collected groundwater samples from monitoring well MW-3, MW-5, MW-7 and each of the three new monitoring wells. ECS also collected groundwater samples from water supply wells WSW-4 and WSW-5. The properties associated with water supply wells WSW-2, WSW-3, and WSW-6 were unoccupied; therefore groundwater samples were not collected.

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On June 25, 2015 ECS contracted with Bateman Civil Survey to survey the monitoring wells. During surveying activities, ECS identified bulldozing had occurred near the location of monitoring well MW-3 and had damaged the well.

SITE GEOLOGY AND HYDROGEOLOGY

As determined from the USGS Topographic Map, Flowers, North Carolina Quadrangle dated 1998 (Figure 1), the site is at an approximate elevation of 275 feet above mean sea level. Surface runoff on the site is generally to the west.

The subject site is situated in the Coastal Plain Physiographic Province. The soils encountered in this area are the residual product of in-place chemical weathering of rock presently underlying the site and/or historic depositional events. In general, shallow unconfined groundwater movement within the overlying soils is controlled largely by topographic gradients. However, as the groundwater percolates downward, it becomes controlled by the subsurface geologic conditions. Thus, the direction of groundwater movement in the deeper aquifers may not be consistent with the reflecting topography.

In general, shallow unconfined groundwater movement within the overlying soils is controlled largely by topographic gradients. Recharge occurs primarily by infiltration along higher elevations and typically discharges into streams or other surface water bodies. The elevation of the shallow water table is transient and can vary with seasonal fluctuations in precipitation. Movement of shallow groundwater is generally from higher to lower elevations.

Water Supply Wells

Six previously identified water supply wells are located within 1,000 feet of the source area. According to the 2012 CES groundwater monitoring report, water supply wells WSW-1, WSW-2, and WSW-3 are connected to municipal water and WSW-1 is abandoned. Additionally, the residences associated with water supply wells WSW-4 and WSW-5 are actively used as a potable water source. Water supply wells WSW-3 and WSW-6 are located greater than 1,000 ECS previously received a completed water supply well feet from the source area. questionnaire from Ms. Sarah Blanchard, the property owner of the residence associated with water supply well WSW-4. Ms. Blanchard stated that WSW-4 is active and the residence is not connected to municipal water. However, water supply well WSW-4 is approximately 975 feet southeast and topographically crossgradient of the site. ECS also received verbal permission from the resident of the home associated with water supply well WSW-5 to collect a groundwater sample. ECS has not received completed water supply well questionnaires from the remaining property owners within 1,000 feet of the site. The names and addresses of the property owners with water supply wells located within 1,000 feet of the site are included in Table 7 and shown on Figure 7.

FIELD ACTIVITIES

On January 26, 2015, ECS collected groundwater samples from monitoring wells MW-3, MW-5, MW-7, MW-8, MW-9, and MW-10. ECS personnel field notes are included in Appendix A. Site photographs are included in Appendix B.

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Prior to the sampling activities, the static groundwater elevation was measured in each monitoring well. Well construction details and groundwater elevation data is summarized in Table 2 and shown of Figure 4. Based on these measurements, ECS determined groundwater flows generally to the west. Purging and sampling were accomplished using a peristaltic pump and dedicated tubing. Immediately after collection, the groundwater samples were transferred into sample containers provided by the laboratory.

ECS also collected groundwater samples from water supply wells WSW-2, WSW-4, and WSW-5. The property associated with water supply well WSW-6 was unoccupied; therefore a groundwater sample was not collected.

Prior to water supply well sampling activities, ECS opened the spigots attached to the outside of the residences for three to five minutes allowing the groundwater to purge from the water supply wells and associated water lines. After allowing the water supply wells to purge, ECS collected the groundwater samples from the spigots into sample containers provided by the laboratory.

The sample containers were labeled with ECS project number, sample identification, sample date and time, and requested analytical analysis. The containers were placed into protective packaging material and placed into a cooler with ice to maintain the samples at approximately 4° Celsius (°C). The samples were submitted to Pace Analytical Services, Inc. located in Huntersville, North Carolina for chemical analysis for volatile organic compounds (VOCs) using EPA Method 6200B. ECS maintained proper chain of custody (COC) procedures throughout the sample collection and transportation process. Laboratory data sheets and COC records are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analysis reported naphthalene at a concentration above its NC2LGWQS but below its GCL in the groundwater sample collected from monitoring well MW-9.

Laboratory analysis reported bromodichloromethane and dibromochloromethane at concentrations above their respective NC2LGWQS but below their respective GCLs in the groundwater samples collected from water supply wells WSW-2 and WSW-4.

Laboratory analysis reported 1,2-dichloropropane at a concentration above its NC2LGWQS but below its GCL in the groundwater sample collected from water supply well WSW-5.

Laboratory analysis reported several additional targeted analytes above their respective laboratory reporting limits but below their NC2LGWQS in the groundwater samples collected from monitoring well MW-9 and water supply wells WSW-2 and WSW-4.

Laboratory analysis did not report targeted analytes at concentrations above the laboratory reporting limits in the groundwater samples collected from monitoring wells MW-3, MW-5, MW-7, MW-8, and MW-10.

A summary of the laboratory analytical results is included in Table 3 and shown on Figures 5 and 6. Historical groundwater data is summarized in Tables 4 and 5.

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The laboratory analytical data sheets and COCs are included in Appendix C.

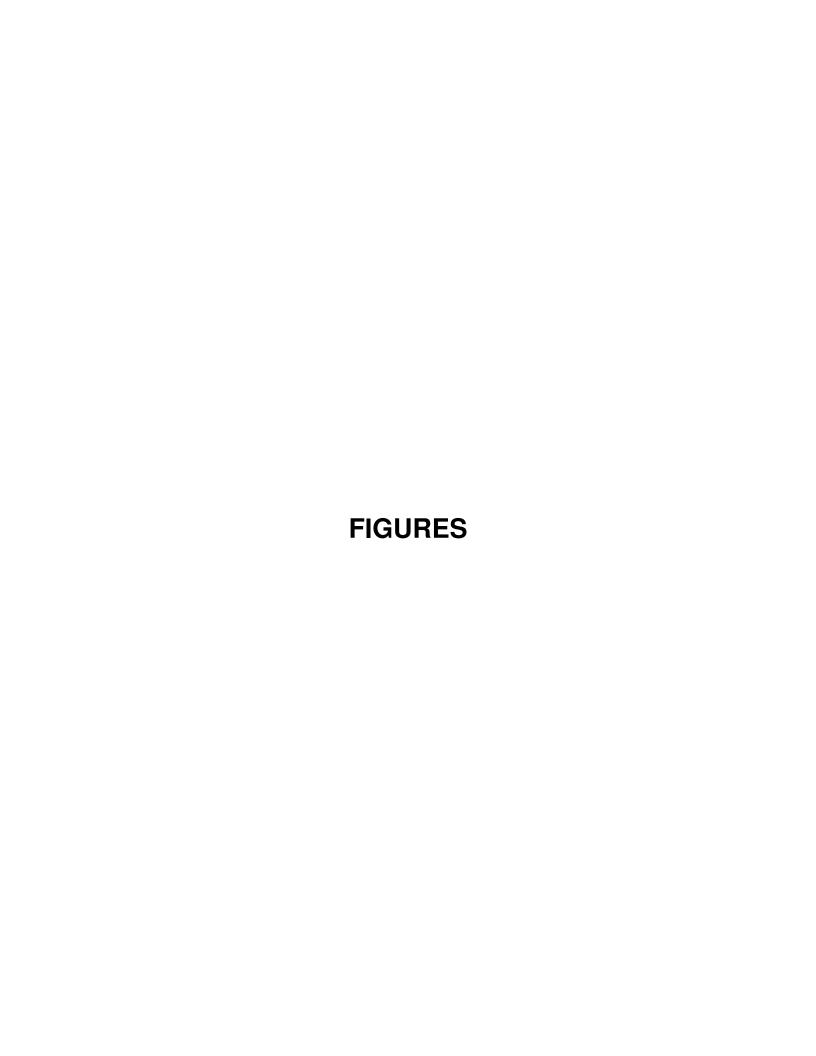
CONCLUSIONS

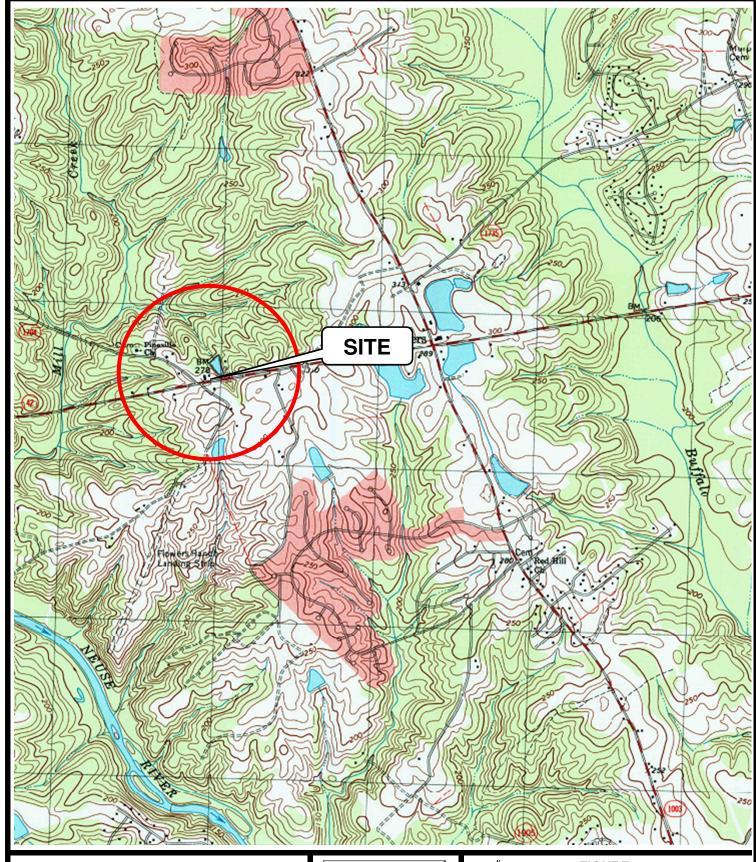
Based on the results of this Groundwater Sampling Event, ECS concludes the following:

- Historically, water supply wells WSW-1, WSW-2 and WSW-3 are connected to the municipal water supply. The presence of these water supply wells is unknown, except for WSW-1, which has been abandoned.
- Naphthalene was reported at a concentration above its NC2LGWQS in the groundwater sample from monitoring well MW-9;
- Laboratory analysis did not report targeted analytes at concentrations above the NC2LGWQS in the remaining groundwater samples collected from site monitoring wells;
- Laboratory analysis reported bromodichloromethane and dibromochloromethane in water supply wells WSW-2 and WSW-4 at concentrations above their respective NC2LGWQS. Bromodichloromethane and dibromochloromethane are common laboratory reagents and are not considered analytes of concern of the site. Additionally, WSW-4 is located approximately 975 feet southeast and topographically cross-gradient of the site and WSW-2 is connected to municipal water. Therefore, ECS does not consider these detections associated with the Flowers Store Property; and
- Laboratory analysis reported 1,2-dichloropropane in water supply well WSW-5 at a concentration above its NC2LGWQS. WSW-5 is located approximately 525 feet northwest and topographically cross-gradient of the site. Therefore, ECS does not consider this detection associated with Flowers Store Property.

RECOMMENDATIONS

- ECS recommends conducting a groundwater sampling event at the site in April 2016;
- ECS recommends conducting contamination transport modeling to assess the potential migration of the contamination plume for monitoring well MW-9 and its relation to area water supply wells. Once the modeling is complete and assuming area water supply wells will not be impacted, a NRP for soil and groundwater contamination should be submitted for the site and the NCDEQ should consider issuing a letter of NFA;
- ECS recommends that once the NRP has been issued, the NCDEQ should issue a NFA letter for the site and consider the site for closure; and
- ECS recommends that a copy of this report be submitted to the current property owner.





SOURCE:

USGS TOPOGRAPHIC MAP FLOWERS NORTH CAROLINA QUADRANGLE DATED 1998

SCALE: 1:24,000



FIGURE 1 SITE LOCATION MAP





Scale: 1 inch = 197 feet

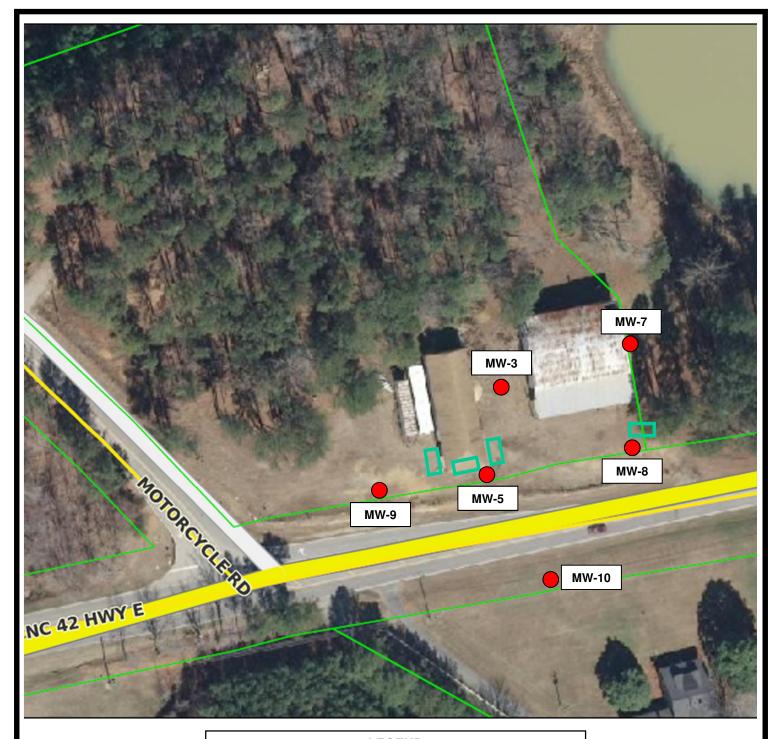
SOURCE:

JOHNSTON COUNTY GIS DATED 2013

SCALE AS SHOWN



FIGURE 2 SITE AERIAL MAP





LEGEND

MW-3 Approximate Location of Monitoring Well



Approximate Location of Former UST

Scale: 1 inch = 60 feet

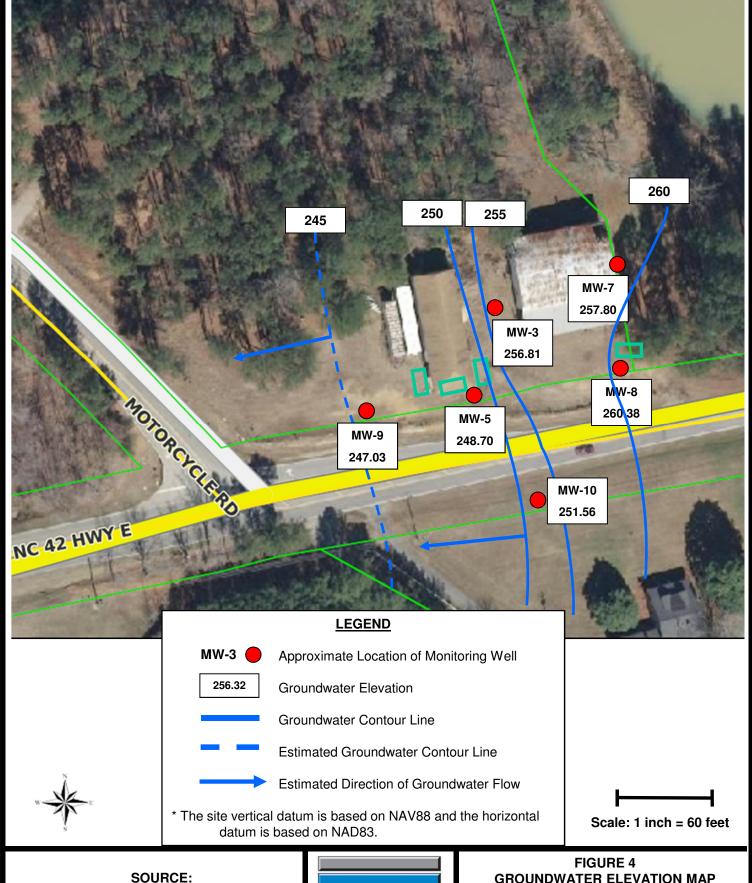
SOURCE:

JOHNSTON COUNTY GIS DATED 2013

SCALE AS SHOWN



FIGURE 3 MONITORING WELL LOCATION MAP

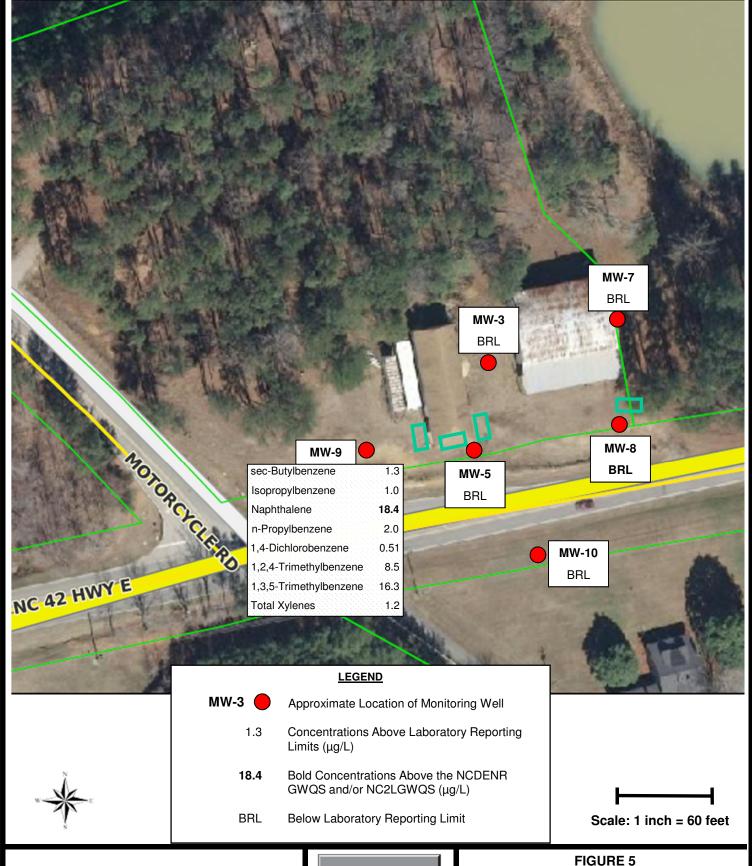


JOHNSTON COUNTY GIS **DATED 2013**

SCALE AS SHOWN



GROUNDWATER ELEVATION MAP



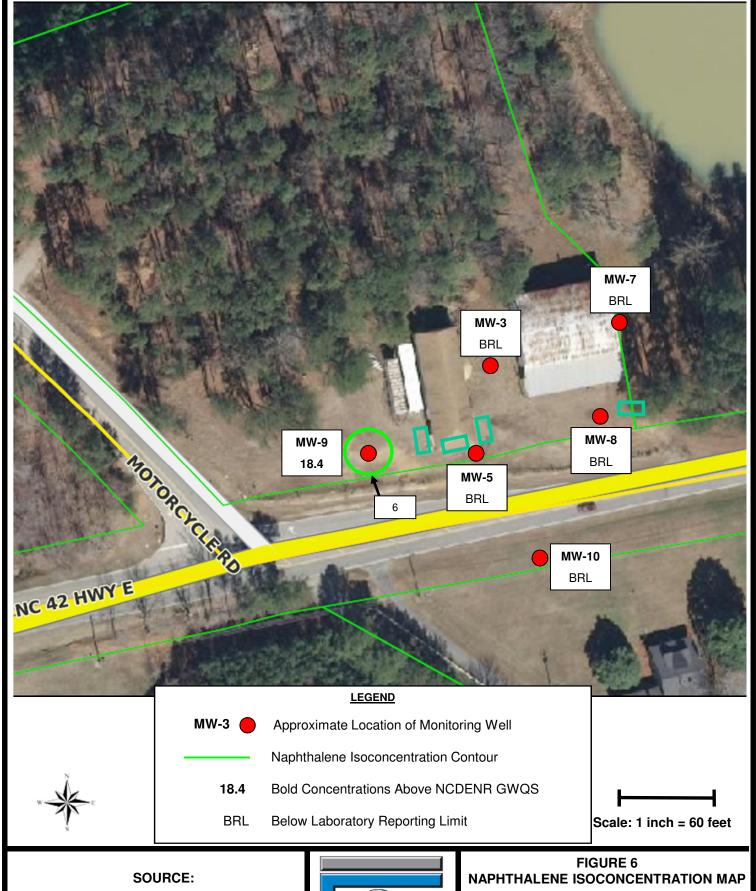
SOURCE:

JOHNSTON COUNTY GIS DATED 2013

SCALE AS SHOWN



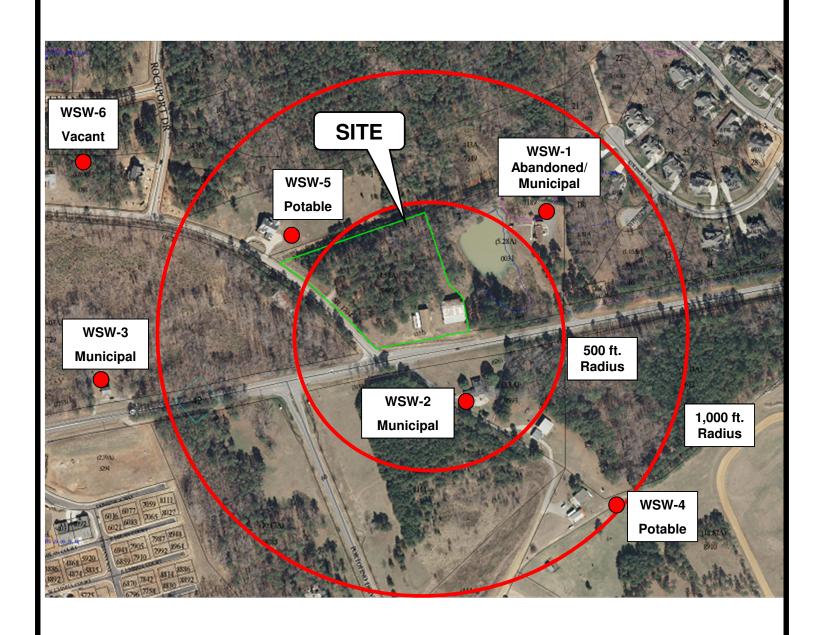
FIGURE 5 GROUNDWATER CONCENTRATION MAP



JOHNSTON COUNTY GIS DATED 2013

SCALE AS SHOWN

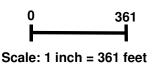






LEGEND

wsw-5 Approximate Location of Water Supply Well



SOURCE:

JOHNSTON COUNTY GIS DATED 2013

SCALE AS SHOWN



FIGURE 7 WATER SUPPLY WELL LOCATION MAP

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ECS PROJECT: 49:1226



Table 1 UST Information Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina

NCDEQ Incident: 17217 ECS Project 49:1226

UST ID Number	Last Contents	Previous Contents	Capacity (in Gallons)	Construction Details	Tank Dimensions	Installation Date	Removal Date	Status
1	Gasoline	Gasoline	8,000	Unknown	8' x 22'	Unknown	August 1994	Removed
2	Kerosene/Diesel	Kerosene/Diesel	1,000	Unknown	4' x 12'	Unknown	August 1994	Removed
3	Diesel	Diesel	6,000	Unknown	8' x 15'	Unknown	August 1994	Removed
4	Gasoline	Gasoline	1,000	Unknown	4' x 12'	Unknown	April 2006	Removed

Table 2
Well Construction and Groundwater Elevation Details
Flowers Store Property
4181 NC Highway 42 East
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NCDEQ Incident: 17217 ECS Project 49:1226

Monitoring Well ID	Date Measured	Depth to Groundwater (ft. btoc)	Date Installed	Total Well Depth (ft. btoc)	Screen Interval (ft. btoc)	TOC Elevation *	Groundwater Elevation
MW-3	1/26/2016	18.42	2/13/2013	35	20-35	275.23	256.81
MW-5	1/26/2016	27.52	2/13/2013	38	23-38	276.22	248.70
MW-7	1/26/2016	13.38	2/13/2013	40	20-40	271.18	257.80
MW-8	1/26/2016	16.40	6/10/2015	30	20-30	276.78	260.38
MW-9	1/26/2016	27.14	6/10/2015	30	20-30	274.17	247.03
MW-10	1/26/2016	27.64	6/10/2015	49	39-49	279.20	251.56

ft. btoc = Feet Below Top of Casing

TOC = Top of Casing

^{* =} Survey performed by Bateman Civil Survey on June 25, 2015. The site vertical datum is based on NAV88 and the horizontal datum is based on NAD83.

Table 3 Summary of Current Groundwater Analytical Results Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217

ECS Project 49:1226

Analytical Method Standard Method 6200B													
Sample ID	Sample Date	Bromodichloromethane	sec-Butylbenzene	Chloroform	Dibromochloromethane	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,2-Dichloropropane	1,4- Dichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes
MW-3	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-5	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-7	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-8	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-9	1/26/2016	BRL	1.3	BRL	BRL	1.0	18.4	2.0	BRL	0.51	8.5	16.3	1.2
MW-10	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
WSW-2	1/26/2016	5.4	BRL	11.8	1.3	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
WSW-4	1/26/2016	6.0	BRL	13.3	1.3	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
WSW-5	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1.7	BRL	BRL	BRL	BRL
NC2LGV	VS (μg/L)	0.6	70	70	0.4	70	6	70	0.6	6	400	400	500
GCL	(μg/L)	NE	8,500	70,000	400	25,000	6,000	30,000	600	6,000	28,500	25,000	85,500

NC2LGWQS = North Carolina 2L Groundwater Quality Standard as of April 1, 2013

GCL = NCDEQ's Gross Contamination Levels for Groundwater as of April 16, 2012

 μ g/L = Micrograms per Liter

NE = Not Established

BRL = Below Laboratory Reporting Limit

Bold = Detected above NC2LGWQS

Table 4 **Summary of Historical Groundwater Analytical Results** Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina NCDEQ Incident: 17217 ECS Project 49:1226

Analy	tical Method					Stan	dard Method 6	200B (or equiv	alent)					EPA Method 625	ı	MADEP EPH/VP	Ή	EPA Method 6010
Contaminar	nt of Concern (µg/L)																	
Monitoring Well ID	Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	Acetone	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	Naphthalene	Total Xylenes	Tetrachloroethene	di-n-Butyl phthalate	C9-C18 Aliphatics	C19-C36Aliphatics	C9-C22 Aromatics	Lead
	9/2/2008	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	6.68	67	91	350	250
TW-1	9/30/2009	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.89	BRL	BRL	BRL	BRL	BRL
	10/4/2012	Destroyed																
	9/2/2008	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TW-2	9/30/2009	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.71	BRL	BRL	BRL	BRL	BRL
	10/4/2012							•	•	Dest	royed	•		_	-			
	9/2/2008	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	9/30/2009	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	11
MW-3	10/4/2012	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
(TW-3)	2/19/2013	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.15 J	BRL	BRL	BRL	BRL	7.2
(100-3)	8/13/2014										royed							
	6/11/2015	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	9/2/2008	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TW-4	9/30/2009										ll Dry							
	10/4/2012										royed	T						
	2/19/2013	0.27 J	0.46 J	BRL	5.2 J	1.2	0.29	BRL	0.49 J	BRL	BRL	BRL	BRL	BRL	110	BRL	BRL	15
MW-5	8/13/2014	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1,746.7	BRL	649	21.5
	6/11/2015	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	2/19/2013	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.53
MW-7	8/13/2014	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	6/12/2015	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
MW-8	6/12/2015	BRL	BRL	0.61	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
	1/26/2016	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	NS	NS	NS	NS
MW-9	6/12/2015	15.7	27.7	BRL	BRL	BRL	2.1	1.6	BRL	3.3	17.1	3.7	BRL	NS	NS	NS	NS	NS
	1/26/2016	8.5	16.3	0.51	BRL	BRL	1.3	0.97	BRL	2.0	18.4	1.2	BRL	NS	NS	NS	NS	NS
MW-10	6/12/2015 1/26/2016	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	BRL BRL	NS NS	NS NS	NS NS	NS NS	NS NS
	1/20/2016	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	INO	INO	IND	INO	INO
NC2L	GWQS (μg/L)	400	400	6	6,000	70	70	70	25	70	6	500	1	700	4,200	42,000	210	15
G	CL (µg/L)	28,500	25,000	6,000	6,000,000	6,900	8,500	25,000	11,700	30,000	6,000	85,500	700	NE	NE	NE	NE	15,000

NC2LGWQS = North Carolina 2L Groundwater Quality Standard as of April 1, 2013

GCL = NCDEQ's Gross Contamination Levels for Groundwater as of April 16, 2012

Bold = Detected above the NC2LGWQS

μg/L = Micrograms per Liter BRL = Below Laboratory Reporting Limit

NS = Not Sampled

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

NE = Not Established

Table 5 Summary of Current Historical Water Supply Well Analytical Results Flowers Store Property 4181 NC Highway 42 East

Clayton, Johnston County, North Carolina NCDEQ Incident: 17217

ECS Project 49:1226

	cal Method	St	andard Met	hod 6200B (or equivale	nt)	MA	ADEP EPH/V	PH
Contaminant	of Concern (ug/L)								
Water Supply Well ID	Date Collected	Bromodichloromethane Bis (2-ethylhexyl) Phthalate		Chloroform	Dibromochloromethane	1,2-Dichloropropane	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics
WSW-1	6/17/2008	BRL	10.4	BRL	BRL	BRL	59	160	160
WSW-2	1/26/2016	5.4	BRL	11.8	1.3	BRL	NS	NS	NS
	6/17/2008	BRL	1.22	BRL	BRL	BRL	56	130	150
WSW-4	8/13/2014	12.6	BRL	39.4	4.3	BRL	NS	NS	NS
VV S VV -4	6/11/2015	12.4	BRL	24.1	4.6	BRL	NS	NS	NS
	1/26/2016	6.0	BRL	13.3	1.3	BRL	NS	NS	NS
	8/13/2014	BRL	BRL	BRL	BRL	1.4	NS	NS	NS
WSW-5	6/11/2015	BRL	BRL	BRL	BRL	2.1	NS	NS	NS
	1/26/2016	BRL	BRL	BRL	BRL	1.7	NS	NS	NS
WSW-6	8/13/2014	BRL	BRL	BRL	BRL	BRL	NS	NS	NS
NC2	LGWQS	NE	3	70	0.4	0.6	700	10,000	200
GC	L (μg/L)	NE	170	70,000	400	600	NE	NE	NE

NC2LGWQS = North Carolina 2L Groundwater Quality Standard as of April 1, 2013

GCL = NCDEQ's Gross Contamination Levels for Groundwater as of April 16, 2012

Bold = Detected above the NC2LGWQS

μg/L = Micrograms per Liter

NE = Not Established

NS = Not Sampled

BRL = Below Laboratory Reporting Limit

Table 6 Summary of Historical Soil Sample Analytical Results Flowers Store Property 4181 NC Highway 42 East Clayton, Johnston County, North Carolina

NCDEQ Incident: 17217 ECS Project 49:1226

Analytical Method			EPA Method 8260B			EPA Method 8270D		MADEP EPH/VPH		
Contaminant of Concern (mg/kg)			4)			te				
Sample ID	Depth Collected (Ft.)	Date Collected	1,3,5-Trimethylbenzene	n-Butylbenzene	sec-Butylbenzene	bis(2-Ethylhexyl)phthalate	Benzoic Acid	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
SB-5	1	2/13/2013	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-5	13	2/13/2013	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-5	18	2/13/2013	BRL	BRL	BRL	BRL	0.26	BRL	39	BRL
SB-5	23	2/13/2013	0.0020	0.0049	0.0011J	0.22	3.7	128	46	75
Soil to Groundwater MSCC			8.3	4.3	3.3	6.6	120	540	Immobile	31
Residential MSCC			782	626	626	46	62,571	1,500	31,000	469
Industrial/Commercial MSCC			20,440	16,350	16,350	410	1,635,200	40,000	810,000	12,264

NCDEQ = North Carolina Department of Environmental Quality

MSCC = Maximum Soil Contaminant Concentration Levels

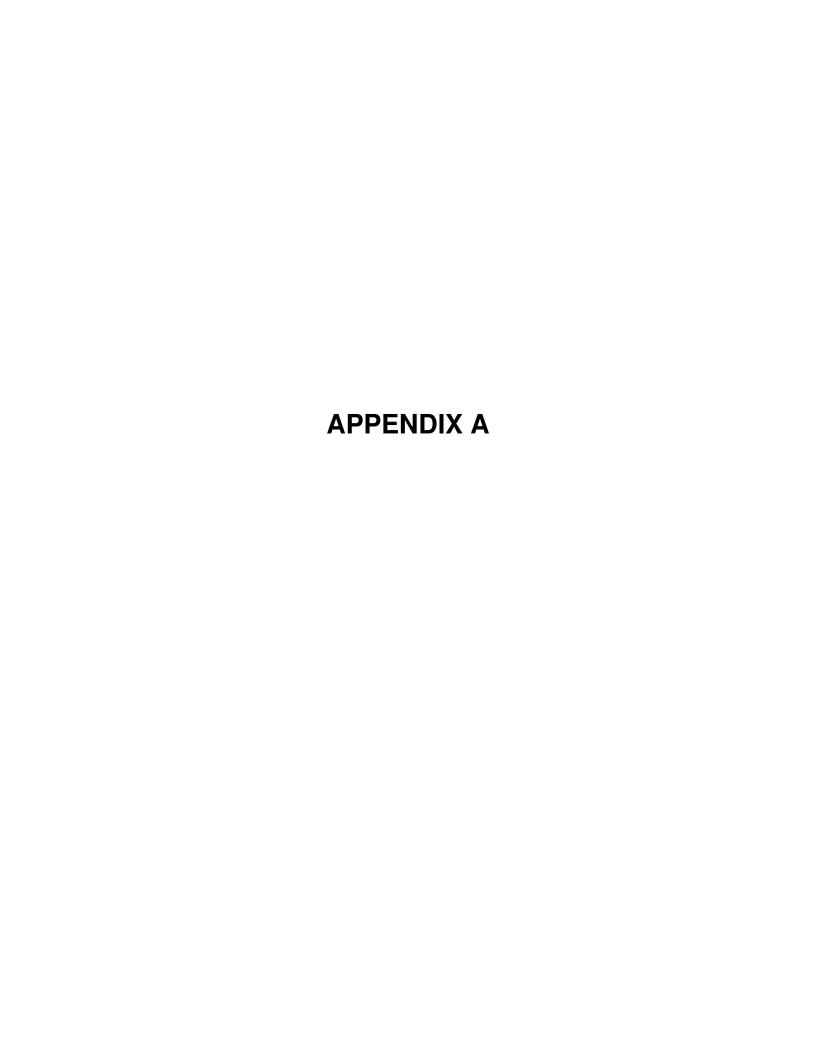
mg/kg = milligrams per kilogram

BRL = Below Laboratory Reporting Limit

Table 7 Water Supply Well Survey Flowers Store Property 4181 NC Highway 42 East Clayton, Johnson County, North Carolina

NCDEQ Incident: 17217 ECS Project 49:1226

Water Supply Well	Parcel Address	Owner	Owner Address	Water Well Status	Connected to Municipal Water	Approximate Distance from Source Area	
WSW-1	4181 NC Highway 42 Clayton, NC 27527	Flowers, Pamela	105 Southridge Drive Garner, NC 27527	Abandoned	Yes	540 feet northeast	
WSW-2	4116 NC Highway 42 Clayton, NC 27527	Flowers, Jimmy	4116 NC Highway 42 Clayton, NC 27527 Unknown		Yes	350 feet south	
WSW-3	Not Listed	Flowers, Peggy	4400 NC Highway 42 Clayton, NC 27527	Unknown	Yes	1,000+ feet west	
WSW-4	4300 NC Highway 42 Clayton, NC 27527	Valcourt, Richard J and Blanchard, Sarah	4709 Chickpay Dr Raleigh NC, 27610	Potable	No	975 feet southeast	
WSW-5	160 Motorcycle Rd Clayton, NC 27527	Robertson, Drake	160 Motorcycle Rd Clayton, NC 27527	Potable	No	525 feet northwest	
WSW-6	270 Motorcycle Rd Clayton, NC 27527	Pineville Chapel Church	270 Motorcycle Road Clayton, NC 27527	Unknown	Unknown	1,000+ feet northwest	





DAILY FIELD LOG

	I IEED EOG
Project Name: Flower's Store	Date: 1-26-16
ECS Field Personnel: PMS	Weather: Sunny wild
Subcontractors:	Others on Site:
Time On-Site: ~ 9:30	Time Off-Site:
SCOPE	OF WORK
(91.30)	CTIVITIES
- Arrived an-site, opened MW-7, MW-8	MW-3 MW-5 MILES
MH-2@ 13.38' bloc; Started purply @	11:25, Startu Samplin @ 11:49
74-8 @ 16.40' Hoy Stortd purply @	11:52, started samply C. 12:15
MN-3 @ 18,42' Ltoc. Start pumps 0	12:18, State Songla, Ca 12:111
MW-5 @ 27,52' bloc; Stouted pungly @	12:45 , Status Samply (13:08
MD-9@ 27.14' Lb. 16.14	3'11
1W-16 (0 27.69 btoc / 10:45 a)	
M2M-5 G 1M:52 2-4 left 245 v1	4:00 1 Stretch Simply 11:08
W5V-4 B 14.45	
INSIN- 2 nd available result mat	
WSW-3 not available, could not locate WSW-5 @ 15:10	finiset, hobiesly is home
WSW-6 not woulder toich fament but h	o water, appears a soundaried
Page of	ECS Project #



9001 Glenwood Avenue

Raleigh, North Carolina 27617

						TVOI CA CA CA			
				MON	ITORING V	VELL SAMPL	ING WORKS	HEET	
MONITORING	WELL ID:	174-10				EC	S PROJECT N	0.	
PROJECT NAM	NE: F	1000	Mart	SITE:				DATE:	1-26-15
VELL DEPTH:		CREEN INTE	RVAL: 39 - 4	491 FT.	WELL	DIAMETER:	2 inch		
EIGHT OF M					NA CA	SING MATE			
AMPLING DE	-		Pump/YSI 5	556 TUBIN	G TYPE:	Poly			
MEASURING F		TOC	DEPTH	TO GROUND	WATER:	27.64		ft. btoo	
AMPLING PE			DEVIC	CE: Peristalt	tic Pump/Y	SI 556 TU	BING TYPE:	Poly	
ST		PIPE AROU		i:		YES		NO	1
		OCKING CAP				YES		NO	
		/E POST/ABI	JTMENT:	·		YES		NO	
		ID PLATE:				YES		NO	
	The second second	GRITY SATIS	FACTORY:			YES		NO	
	v	VELL YIELD:				HIGH	☐ MOD	ERATE	LOW
OMMENTS:					,				
ME (MILITARY)	TEMP (°C)	SP. COND.	D.O.	PH (S.U.)	O.R.P.	TURBIDITY		Con	nments
0'.45		(cS/cm)	(mg/L)		(Mv)	VISUAL (1)			nnens
	18.21	0.0049	132	6.41	94,4		Stanted	ال المل	~(
0:48	14.30	0.00-10		5.83	114.2				/
0:53	18:36	0.087	3.16	5.41	135,0				
3.58	18.31	0.038	2.21	5.24	149.6				
11:03	18.40	0.039	7.10	5.21	153.1				
1:08	18 92	0.039	6.97	5.14	1701	1	Marten	1 san	eli.
		-		 					
-		-							
		-		N	OTES				

	-			-					



9001 Glenwood Avenue

Raleigh, North Carolina 27617

	2			MON	IITORING V	VELL SAMPL	ING WO	DRKSHEET		
MONITORING	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	MW-	7			EC	S PROJE	CT No.		
ROJECT NAN				SITE:				DATE:	1-26-16	
VELL DEPTH:	401 S	CREEN INTE	RVAL: 20	-401 FT.		DIAMETER		h		
EIGHT OF M					THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN	ISING MATE	ERIAL:	PVC		
AMPLING DE	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			556 TUBIN		Poly				
EASURING I		тос		TO GROUNI		13,391		ft. bto		
AMPLING PE				CE: Peristal	tic Pump/Y		BING T	-		
31	THE RESERVE OF THE PERSON NAMED IN	PIPE AROU	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	G:	1	YES	1	NO		
		CKING CAP			-	YES	-	NO		
		/E POST/ABI ID PLATE:	DIMENT:		11	YES	12	NO		
		GRITY SATIS	FACTORY.		-	YES		NO		
		VELL YIELD:	FACTORY:		14	YES	-	NO	-	
OMMENTS:		VELL TIELD:			<u> </u>	HIGH	Ш_	MODERATE		LOW
JIVIIVILIA I 3.										
		Lan ooun								
ME (MILITARY)	TEMP (*C)	SP. COND.		PH (S.U.)	O.R.P.	TURBIDITY		Com	ments	
1120	Jus	(cS/cm)	(mg/L)	-	(Nv)	VISUAL (1)				T. 1000
1:25	16,89	U. 02 Y	691	5.90	154.1	1	Ster	ita evy	,	
	F6 81.8	0.017	6.55	542	157.3					
1 133	16.18	0.027	6,23	5,91	159.8	1				
1:38	16.61	0.627	5.95	5,83	163.4	1				
	THE RESERVE THE PERSON NAMED IN	0.027	5.66	5.90	158.9					
11.48	16.55	0 027	5.64	5.43	155,9	1	Star	ted sampli	h.	
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		-		N	OTES					
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9001 Glenwood Avenue

	2				Raleigh,	North Caro	lina 276	17		e e
				MON	IITORING V	VELL SAMPL	ING W	DRKSHEET		
MONITORING		MW-8				EC	S PROJE	CT No.		-
PROJECT NAM	-			SITE:				DATE:	1-26-10	
WELL DEPTH:	the same of the sa	CREEN INTE			WELL	DIAMETER	: 2 inc			-
HEIGHT OF M		POINT ABO	VE LAND SU	JRFACE:	-	SING MATE	STREET, SQUARE, SQUARE,	PVC		
AMPLING DE	VICE:	Peristaltic	Pump/YSI !	556 TUBIN		Poly				
MEASURING F	POINT:	TOC		TO GROUNI		16.401		ft. btoo	:	
AMPLING PE	RSONNEL	D. Martino		CE: Peristal				PE: Poly		-
ST	EEL GUARD	PIPE AROU	ND CASING	i:		YES		NO	1	
	LC	CKING CAP				YES		NO		~
	PROTECTIV	E POST/ABI	JTMENT:			YES		NO		
		ID PLATE:				YES	F	NO		
	WELL INTEG	BRITY SATIS	FACTORY:			YES		NO		
		VELL YIELD:				HIGH		MODERATE		LOW
OMMENTS:						1110)1		WODERATE		LOW
ME (MILITARY)	TEMP (°C)	SP. COND.	D.O.	PH (S.U.)	O.A.P.	TURBIDITY		0		
		(cS/cm)	(mg/L)		(N/v)	VISUAL (1)		Con	nments	
1:52	16.90	0 030	685	5.72	16 6.2		5	tusted our	206	
11.55	16.98	0.032	6.57	5.64	1639			f	1)	
12:00	1220	0.637	5.75	5.18	172.1	1				
12:05	18.09	140.0	5.40	4.93	192.2	1				
12'.10	18.25	0,043	5.47	4.77	2-8.4	1				
12 ,15	14.21	0 04}	5,18	4.73	215.5	1	it	ortal Jean	-11	
						1	<u> </u>	V.D. 3-44		
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			1/2							
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	-	-			0770		-			
				IV.	OTES					
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9001 Glenwood Avenue

		-			raleign,	North Caro	ina 2/617	-
				MON	ITORING V	WELL SAMPL	ING WORKSHEET	
MONITORING	WELL ID:	MW-3				EC	S PROJECT No.	
PROJECT NAM	ΛE:			SITE:			DATE:	1-26-16
WELL DEPTH:	351 S	CREEN INTE	RVAL: 24	35' FT.	WELL	DIAMETER		, , ,
HEIGHT OF M	EASURING	POINT ABOY	VE LAND SI	JRFACE:		ASING MATE		
SAMPLING DE		Peristaltic	Pump/YSI	556 TUBIN		Poly		
MEASURING I		TOC	DEPTH	TO GROUND			• ft. bto	c
SAMPLING PE	RSONNEL	D. Martino	DEVI	CE: Peristal	tic Pump/Y	/SI 556 TU		
ST	NAME OF TAXABLE PARTY.	PIPE AROU		3:		YES	□ NO	
	TAKE BELLEVILLE OF THE PARTY OF	OCKING CAP				YES	□ NO	
		E POST/ABI	JTMENT:			YES	□ NO	
		ID PLATE:				YES	NO	
		GRITY SATISI	FACTORY:			YES	□ NO	
		VELL YIELD:				HIGH	MODERATE	LOW
COMMENTS:								
					-			
		SP. COND.	D.O.		0.00	TURNING		
TME (MILITARY)	TEMP (°C)	10 10 10 10 10 10 10 10 10 10 10 10 10 1		PH (S.U.)	O.R.P.	TURBIDITY	Cor	nments
12:18	18.21	(cS/cm)	(mg/L)	1/1/20	(MV)	VISUAL (1)		
71,21	17,93	6,072	6.14	4.77	231.4		Started pu	~ g'
12:26	17.49	0.285	3.08	6.13	213.4	2		. ,
17:31	18.05	0.084	2.26	The second second	The Real Property lies and the last of the	2		
12:36	12,79	D. U87	1.83	6.17	(22.4	2		-
12:41	17.79	0.077		6.31	146.6	2		
10.11	1.1	0.075	1.19	6.23	130.2	-	St-Aca S	cacall,
		1				-		
		-						
			-					
				-				
				51/	OTES			
				14.	UTES			
-						-		
						-		
		-						-
					-			
-								
		-						
	and the later of the later of the	***	NAME OF TAXABLE PARTY.	-	-			



9001 Glenwood Avenue

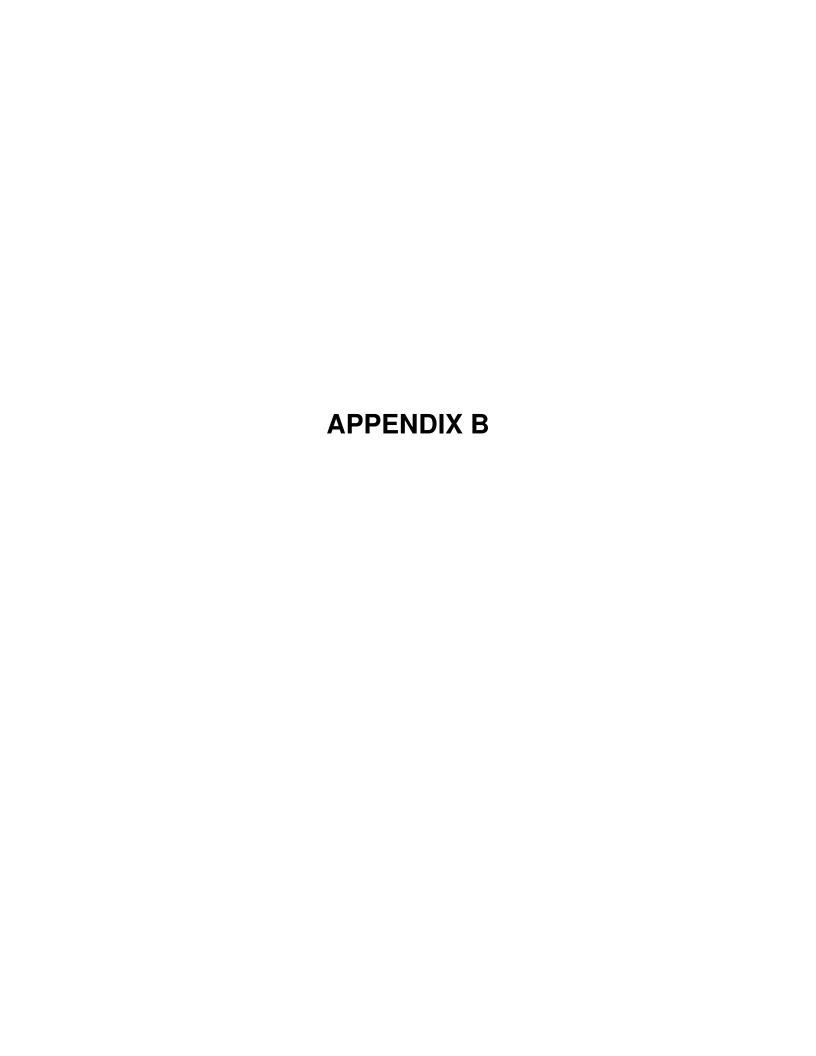
Raleigh, North Carolina 27617

MONITORING WELL DEN AND SUPERING PROJECT NAME: PROJECT NAME: SITE: DATE: \$ -2 (-) (WELL DEPTH: \$] ! SCREEN INTERVAL: \$] * FT. WELL DIAMETER: 2 inch HEIGHT OF MEASURING POINT ABOVE LAND SURFACE: NA CASING MATERIAL: PVC SAMPLING DEVICE: Peristatic PumplySI 556 TUBNG TYPE: Poly MEASURING POINT: TOC DEPTH TO GROUNDWATER: 2 ? -3 (-				North Caro			
SCREEN INTERVAL: 23 SCREEN INTERVAL: 23 - 35 FT. WELL DIAMETER: 2 Inch	distribution of		1		MON	ITORING V	WELL SAMPL	ING WORKS	SHEET	
STE: DATE: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MONITORING	WELLID:	MW-5		A DESCRIPTION OF THE PERSON OF		EC	S PROJECT N	Vo.	
MELL DEPTH: 3 SCREEN INTERVAL: 3 - 3 FT. WELL DIAMETER: 2 Inch HEIGHT OF MEASURING POINT ABOVE LAND SURFACE: NA CASING MATERIAL: PVC HAMPLING DEVICE: Peristatic Pump/YSI 556 TUBING TYPE: Poly MEASURING POINT: TOC DEPTH TO GROUNDWATER: 2 2 - 1 ft. btoc HAMPLING PERSONNEL D. Martino DEVICE: Peristatic Pump/YSI 556 TUBING TYPE: Poly STEEL GUARD PIPE AROUND CASING:	PROJECT NAN	ΛE:			SITE:					1-76-11
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE: NA CASING MATERIAL: PVC AMMPLING DEVICE: Peristalite Pump/YSI 556 TUBING TYPE: Poly IF AMMPLING DEVICE: Peristalite Pump/YSI 556 TUBING TYPE: Poly IF AMMPLING PERSONNEL D. Martino DEVICE: Peristalite Pump/YSI 556 TUBING TYPE: Poly STEEL GUARD PIPE AROUND CASING:	VELL DEPTH:	381 S	CREEN INTE	RVAL: 23 -	38' FT.	WELI	DIAMETER	2 inch		
AMPLING DEVICE: Peristatic Pump/YSI 556 TUBING TYPE: Poly MEASURING POINT: TOC DEPTH TO GROUNDWATER: 2.2./1, ft. btoc AMPLING PERSONNEL D. Martino DEVICE: Peristatic Pump/YSI 556 TUBING TYPE: Poly STEEL GUARD PIPE AROUND CASING: YES NO LOCKING CAP: YES NO PROTECTIVE POST/ABUTMENT: YES NO WELL INTEGRITY SATISFACTORY: YES NO WELL VIELD: HIGH MODERATE LOW OMMENTS: ME (WILLTARY) TEMP ('C) SP. COND. (c/s/cm) (mg/L) PH (/s,L) (/s						The state of the s	CONTRACTOR OF THE PARTY OF THE	NAME OF TAXABLE PARTY.	C	
AMPLING PERSONNEL D. Martino DEVICE: Peristaltic Pump/YSI 556 TUBING TYPE: Poly STEEL GUARD PIPE AROUND CASING: YES NO LOCKING CAP: YES NO NO PROTECTIVE POST/ABUTMENT: YES NO NO WELL INTEGRITY SATISFACTORY: YES NO WELL INTEGRITY SATISFACTORY: YES NO NO WELL YIELD: HIGH MODERATE LOW OMMENTS: ME (MILITARY) TEMP (*C) SP. COND. (cs/or) (mg/s) PH (S.U.) (My) VISUAL (1) Commenta (mg/s) 15 HG O. cd/y 1. HG ST. S.C. 143.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AMPLING DE	EVICE:	Peristaltic	Pump/YSI !	556 TUBIN					
AMPLING PERSONNEL D. Martino DEVICE: Peristaltic Pump/YSI 556 TUBING TYPE: Poly STEEL GUARD PIPE AROUND CASING:				DEPTH	TO GROUND	WATER:	27.52'		ft. bto	c
STEEL GUARD PIPE AROUND CASING: YES	AMPLING PE	RSONNEL	D. Martino	DEVI	CE: Peristal	tic Pump/	/SI 556 TU	BING TYPE:	Poly	
PROTECTIVE POST/ABUTMENT:	ST	EEL GUARD	PIPE AROU	ND CASING	G:				STREET, SQUARE, SQUARE	1
ID PLATE:		LC	OCKING CAP				YES		NO	
WELL INTEGRITY SATISFACTORY: WELL YIELD: ME (WILL TARY) TEMP (*C) (CS/cm) (mg/L) PH (S.U.) (MW) VISUAL (1) Comments 2 'YS (3.3) CG(2 (.47 6.2) 1/5 (2.4) 1/5 (3.4) 1/5 (3.4) 1/5 (4.1)		PROTECTIV	E POST/ABI	JTMENT:			YES		NO	
WELL YIELD:		THE RESERVE TO BE STORY OF THE PERSON NAMED IN	THE RESERVE OF THE PARTY OF THE				YES		NO	
OMMENTS: ME (NILITARY) TEMP (°C) SP. COND. (cs/cm) (mg/L) PH (S.U.) O.R.P. TURBIDITY VISUAL (1) Comments 2 : Y \$ 1 \ 3 \ 3 \ 0 \ 0 \ 6 \ 6 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1				FACTORY:			YES		NO	
ME (WILITARY) TEMP (°C) SP. COND. (cs/cm) (mg/L) PH (S.U.) O.R.P. TURBIDITY (Comments) 2 '45		V	VELL YIELD:				HIGH	□ мо	DERATE	LOW
ME (WILTARY) TEMP (°C) (cs/cm) (mg/L) PH (SU) (My) VISUAL (1) Comments 2:45 3:39 0 cf	OMMENTS:									
ME (WILTARY) TEMP (°C) (cs/cm) (mg/L) PH (SU) (My) VISUAL (1) Comments 2:45 3:39 0 cf										
ME (WILTARY) TEMP (°C) (cs/cm) (mg/L) PH (SU) (My) VISUAL (1) Comments 2:45 3:39 0 cf										
(cS/cm) (mg/L) (My) VISUAL (1) 7:45	ME (MILITARY)	TEMP ('C)		D.O.	PH (S.U.)		TURBIDITY		Cor	munania
2:48 544 0.064 1.44 5.88 1864 1873 1884 18				The second secon		(Mv)	VISUAL (1)			
2 '55 19.19 0.647 1.73 5.21 (59.2) 2 '55 19.19 0.647 1.73 5.21 (59.2) 3 '07 19.27 0.644 1.67 5.11 196.0 19.08 19.22 0.35 1.57 4.88 1850 () storted sampling							4	Stro but	وسرس	
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9001 Glenwood Avenue

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Photograph 1: View of the subject site. View is to the northeast.

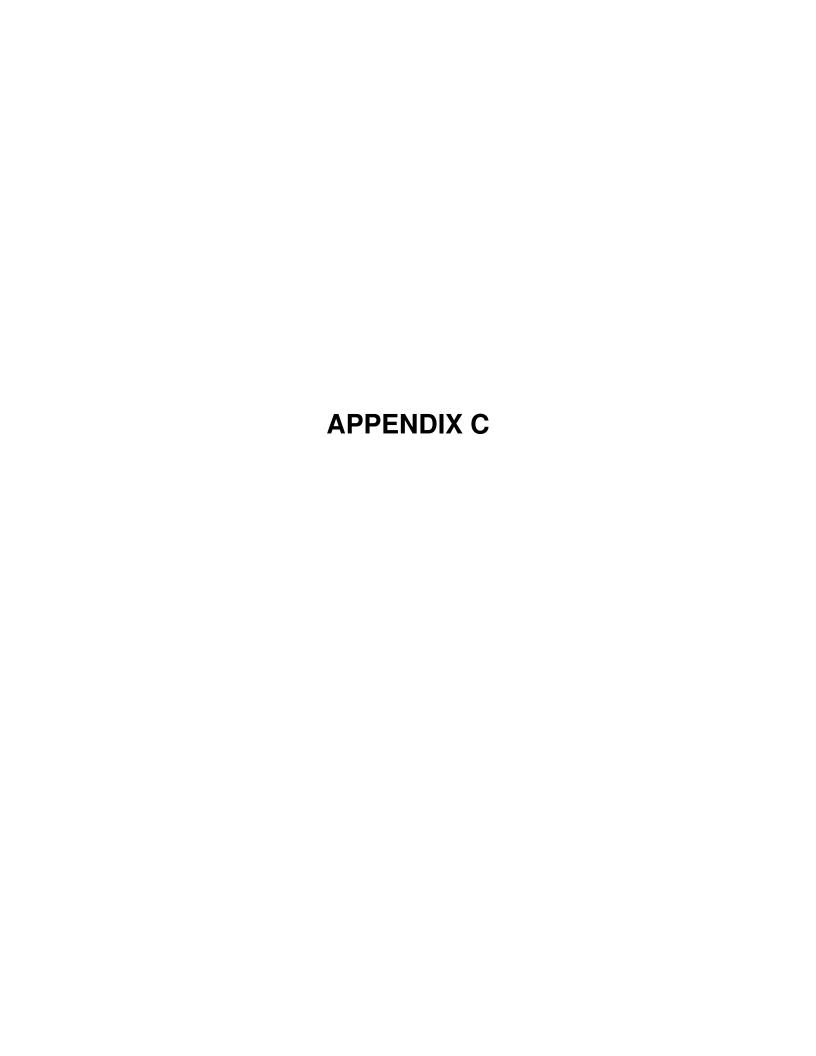


Photograph 2: View of monitoring well MW-8



SITE PHOTOGRAPHS

FLOWERS STORE PROPERTY
4181 NC HIGHWAY 42 EAST
CLAYTON, JOHNSON COUNTY, NORTH CAROLINA
NCDEQ INCIDENT: 17217
ECS PROJECT NO 49:1226







February 02, 2016

Matthew Gillis ECS 9001 Glenwood Avenue Raleigh, NC 27617

RE: Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Dear Matthew Gillis:

Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell

taylor.ezell@pacelabs.com

15/5/le

Project Manager

Enclosures

cc: Brian Smith, ECS Carolinas LLP





Pace Analytical www.pacelabs.com

9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

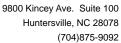
Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221





SUMMARY OF DETECTION

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92284408005	MW-9					
SM 6200B	sec-Butylbenzene	1.3	ug/L	0.50	02/02/16 03:01	
SM 6200B	1,4-Dichlorobenzene	0.51	ug/L	0.50	02/02/16 03:01	
SM 6200B	Isopropylbenzene (Cumene)	0.97	ug/L	0.50	02/02/16 03:01	
SM 6200B	Naphthalene	18.4	ug/L	2.0	02/02/16 03:01	
SM 6200B	n-Propylbenzene	2.0	ug/L	0.50	02/02/16 03:01	
SM 6200B	1,2,4-Trimethylbenzene	8.5	ug/L	0.50	02/02/16 03:01	
SM 6200B	1,3,5-Trimethylbenzene	16.3	ug/L	0.50	02/02/16 03:01	
SM 6200B	o-Xylene	1.2	ug/L	0.50	02/02/16 03:01	
92284408007	WSW-2					
SM 6200B	Bromodichloromethane	5.4	ug/L	0.50	02/02/16 03:35	
SM 6200B	Chloroform	11.8	ug/L	0.50	02/02/16 03:35	
SM 6200B	Dibromochloromethane	1.3	ug/L	0.50	02/02/16 03:35	
92284408008	WSW-4					
SM 6200B	Bromodichloromethane	6.0	ug/L	0.50	02/02/16 03:52	
SM 6200B	Chloroform	13.3	ug/L	0.50	02/02/16 03:52	
SM 6200B	Dibromochloromethane	1.3	ug/L	0.50	02/02/16 03:52	
92284408009	WSW-5					
SM 6200B	1,2-Dichloropropane	1.7	ug/L	0.50	02/02/16 04:09	



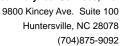
ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-7	Lab ID: 922	84408001	Collected: 01/26/1	6 11:48	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/01/16 17:4:	2 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/01/16 17:42	2 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/01/16 17:42	2 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/01/16 17:42	2 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/01/16 17:4	2 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/16 17:4	2 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:42	2 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:4	2 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:42	2 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/01/16 17:42	2 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/01/16 17:42	2 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/01/16 17:42	2 75-00-3	
Chloroform	ND	ug/L	0.50	1		02/01/16 17:42	2 67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/01/16 17:42	2 74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 17:4:	2 95-49-8	
1-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 17:4:	2 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/01/16 17:4:	2 96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		02/01/16 17:4:	2 124-48-1	
,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/01/16 17:4:	2 106-93-4	
Dibromomethane	ND	ug/L	0.50	1		02/01/16 17:4		
I,2-Dichlorobenzene	ND	ug/L	0.50	1		02/01/16 17:4		
I,3-Dichlorobenzene	ND	ug/L	0.50	1		02/01/16 17:4		
,4-Dichlorobenzene	ND	ug/L	0.50	1		02/01/16 17:4		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/01/16 17:4:		
I,1-Dichloroethane	ND	ug/L	0.50	1		02/01/16 17:4:		
1,2-Dichloroethane	ND	ug/L	0.50	1		02/01/16 17:4:		
I,1-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:4:		
rans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:4:		
1,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:4:		
1,3-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:4		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:4		
1,1-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:4:		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:4:		
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:4		
Diisopropyl ether	ND	ug/L	0.50	1		02/01/16 17:42		
Ethylbenzene	ND	ug/L	0.50	1		02/01/16 17:42		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/01/16 17:42		
sopropylbenzene (Cumene)	ND	ug/L ug/L	0.50	1		02/01/16 17:42		
Methylene Chloride	ND	ug/L ug/L	2.0	1		02/01/16 17:42		
Methyl-tert-butyl ether	ND	ug/L ug/L	0.50	1		02/01/16 17:42		
Naphthalene	ND ND	ug/L ug/L	2.0	1		02/01/16 17:42		
n-Propylbenzene	ND	ug/L	0.50	1		02/01/16 17:42		
Styrene	ND	ug/L ug/L	0.50	1		02/01/16 17:42		
I,1,1,2-Tetrachloroethane	ND	ug/L ug/L	0.50	1		02/01/16 17:42		
1,1,2,2-Tetrachloroethane	ND ND	ug/L ug/L	0.50	1		02/01/16 17:42		





Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-7	Lab ID: 922	84408001	Collected: 01/26/1	6 11:48	Received: 0'	1/27/16 09:50 N	Natrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/01/16 17:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 17:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 17:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/01/16 17:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/01/16 17:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/01/16 17:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/01/16 17:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/01/16 17:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 17:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 17:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/01/16 17:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/01/16 17:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/01/16 17:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		02/01/16 17:42		
4-Bromofluorobenzene (S)	99	%	70-130	1		02/01/16 17:42	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/01/16 17:42	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-8	Lab ID: 922	84408002	Collected: 01/26/1	16 12:15	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/01/16 17:5	9 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/01/16 17:5	9 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/01/16 17:5	9 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/01/16 17:5	9 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/16 17:5	9 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/01/16 17:5	9 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/01/16 17:5		
Chloroethane	ND	ug/L	1.0	1		02/01/16 17:5		
Chloroform	ND	ug/L	0.50	1		02/01/16 17:5		
Chloromethane	ND	ug/L	1.0	1		02/01/16 17:5		
2-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 17:5		
4-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 17:5		
1,2-Dibromo-3-chloropropane	ND ND	ug/L	1.0	1		02/01/16 17:5		
Dibromochloromethane	ND	ug/L	0.50	1		02/01/16 17:5		
1,2-Dibromoethane (EDB)	ND ND	ug/L ug/L	0.50	1		02/01/16 17:5		
Dibromomethane	ND ND	ug/L ug/L	0.50	1		02/01/16 17:5		
				1				
1,2-Dichlorobenzene	ND ND	ug/L	0.50 0.50	1		02/01/16 17:59 02/01/16 17:59		
1,3-Dichlorobenzene		ug/L		1				
1,4-Dichlorobenzene	ND	ug/L	0.50			02/01/16 17:5		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/01/16 17:5		
1,1-Dichloroethane	ND	ug/L	0.50	1		02/01/16 17:5		
1,2-Dichloroethane	ND	ug/L	0.50	1		02/01/16 17:5		
1,1-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:5		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:5		
rans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/01/16 17:5		
1,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:5		
1,3-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:5		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 17:5		
1,1-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:5	9 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/01/16 17:5	9 10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/01/16 17:5		
Ethylbenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/01/16 17:5	9 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/01/16 17:5		
Methylene Chloride	ND	ug/L	2.0	1		02/01/16 17:5	9 75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/01/16 17:5	9 1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/01/16 17:5	9 91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/01/16 17:5	9 103-65-1	
Styrene	ND	ug/L	0.50	1		02/01/16 17:5	9 100-42-5	
I,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/01/16 17:5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/01/16 17:5		
Tetrachloroethene	ND	ug/L	0.50	1		02/01/16 17:5		



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-8	Lab ID: 922	84408002	Collected: 01/26/1	16 12:15	Received: 01	1/27/16 09:50 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/01/16 17:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 17:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 17:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/01/16 17:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/01/16 17:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/01/16 17:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/01/16 17:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/01/16 17:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 17:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 17:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/01/16 17:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/01/16 17:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/01/16 17:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		02/01/16 17:59	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/01/16 17:59	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/01/16 17:59	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-3	Lab ID: 922	84408003	Collected: 01/26/1	16 12:41	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/01/16 18:1	6 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/01/16 18:1	6 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/01/16 18:1	6 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/01/16 18:1	6 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/01/16 18:1	6 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/16 18:1	6 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/01/16 18:1	6 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/01/16 18:1	6 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/01/16 18:1	6 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/01/16 18:1	6 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/01/16 18:1	6 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/01/16 18:1		
Chloroform	ND	ug/L	0.50	1		02/01/16 18:1	6 67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/01/16 18:1		
2-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 18:1		
4-Chlorotoluene	ND	ug/L	0.50	1		02/01/16 18:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/01/16 18:1		
Dibromochloromethane	ND	ug/L	0.50	1		02/01/16 18:1		
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/01/16 18:1	-	
Dibromomethane	ND	ug/L	0.50	1		02/01/16 18:1		
1,2-Dichlorobenzene	ND	ug/L	0.50	1		02/01/16 18:1		
1,3-Dichlorobenzene	ND ND	ug/L ug/L	0.50	1		02/01/16 18:1		
1,4-Dichlorobenzene	ND ND	ug/L ug/L	0.50	1		02/01/16 18:1		
Dichlorodifluoromethane	ND ND	ug/L ug/L	0.50	1		02/01/16 18:1		
1,1-Dichloroethane	ND ND	•	0.50	1		02/01/16 18:1		
		ug/L		1				
1,2-Dichloroethane	ND ND	ug/L	0.50 0.50	1		02/01/16 18:1 02/01/16 18:1		
1,1-Dichloroethene	ND ND	ug/L	0.50	1		02/01/16 18:1		
cis-1,2-Dichloroethene		ug/L		1				
trans-1,2-Dichloroethene	ND	ug/L	0.50			02/01/16 18:1		
1,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 18:1		
1,3-Dichloropropane	ND	ug/L	0.50	1		02/01/16 18:1		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/01/16 18:1		
1,1-Dichloropropene	ND	ug/L	0.50	1		02/01/16 18:1		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1			6 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	0.50	1			6 10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/01/16 18:1		
Ethylbenzene	ND	ug/L	0.50	1		02/01/16 18:1		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/01/16 18:1		
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/01/16 18:1		
Methylene Chloride	ND	ug/L	2.0	1		02/01/16 18:1		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/01/16 18:1		
Naphthalene	ND	ug/L	2.0	1		02/01/16 18:1		
n-Propylbenzene	ND	ug/L	0.50	1		02/01/16 18:1		
Styrene	ND	ug/L	0.50	1		02/01/16 18:1		
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/01/16 18:1	6 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/01/16 18:1	6 79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/01/16 18:1	6 127-18-4	



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-3	Lab ID: 922	84408003	Collected: 01/26/1	16 12:41	Received: 01	1/27/16 09:50 N	Natrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/01/16 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/01/16 18:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/01/16 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/01/16 18:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/01/16 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/01/16 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/01/16 18:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/01/16 18:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/01/16 18:16	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/01/16 18:16	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/01/16 18:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		02/01/16 18:16		
4-Bromofluorobenzene (S)	99	%	70-130	1		02/01/16 18:16	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/01/16 18:16	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

September No. Ugl. 0.50 1 02/02/16 02/44 71-43-2 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 74-97-5 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 77-97-5 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 77-97-5 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 77-97-5 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 77-93-9 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 104-51-3 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 104-50-8 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 104-50-8 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 104-50-5 30mobenzene No. Ugl. 0.50 1 02/02/16 02/44 104-60-7 30mobenze	Sample: MW-5	Lab ID: 922	84408004	Collected: 01/26/1	6 13:08	Received:	01/27/16 09:50	Matrix: Water	
Serizene	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Strombehrane ND	6200B MSV	Analytical Met	hod: SM 62	00B					
Stromochromethane ND ug/L 0.50 1 0.2/02/16 02:44 74-97-5 3/8/2/16 0/2/44 75-527-4 3/8/2/16 0/2/44 75-527-4 3/8/2/16 0/2/44 76-527-4 3/8/2/16 0/2/44 76-527-4 3/8/2/16 0/2/44 74-87-5 3/8/2/16 0/2/44 74-87-5 3/8/2/16 0/2/44 74-87-5 3/8/2/16 0/2/44 74-83-9 3/8/2/16 0/2/44 74-83	Benzene	ND	ug/L	0.50	1		02/02/16 02:4	4 71-43-2	
Stromofolm	Bromobenzene	ND	ug/L	0.50	1		02/02/16 02:4	4 108-86-1	
Stromform ND	Bromochloromethane	ND	ug/L	0.50	1		02/02/16 02:4	4 74-97-5	
Stromomethane ND	Bromodichloromethane	ND	ug/L	0.50	1		02/02/16 02:4	4 75-27-4	
NBU yBurzene ND ug/L 0.50 1 0.20/2/16 02:44 104-51-8 ee-Butylbenzene ND ug/L 0.50 1 0.20/2/16 02:44 135-98-8 er-Butylbenzene ND ug/L 0.50 1 0.20/2/16 02:44 95-06-6 earbon tetrachloride ND ug/L 0.50 1 0.20/2/16 02:44 56-23-5 chlorobenzene ND ug/L 0.50 1 0.20/2/16 02:44 56-23-5 chlorobenzene ND ug/L 0.50 1 0.20/2/16 02:44 75-03-3 chlorobenzene ND ug/L 0.50 1 0.20/2/16 02:44 75-03-3 chlorofathane ND ug/L 0.50 1 0.20/2/16 02:44 75-03-3 chlorofathane ND ug/L 0.50 1 0.20/2/16 02:44 76-63-3 chlorofathane ND ug/L 0.50 1 0.20/2/16 02:44 76-63-3 chloroformen ND ug/L 0.50 1 0.20/2/16 02:44 76-63-3 chloroformen ND ug/L 0.50 1 0.20/2/16 02:44 95-49-8 c-Chlorotoluene ND ug/L 0.50 1 0.20/2/16 02:44 96-49-8 c-Chlorotoluene ND ug/L 0.50 1 0.20/2/16 02:44 96-49-8 c-Chlorotoluene ND ug/L 0.50 1 0.20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-42-8 0.20-20/2/16 02:44 96-52-8 0.20-20/2/16 02:44 96-52-8 0.20-20/2/16 02:44 95-50-1 0.20-20/2/16 02:44 9	Bromoform	ND	ug/L	0.50	1		02/02/16 02:4	4 75-25-2	
NBUylbenzene ND	Bromomethane	ND	ug/L	5.0	1		02/02/16 02:4	4 74-83-9	
No	n-Butylbenzene	ND		0.50	1		02/02/16 02:4	4 104-51-8	
ent-Butylbenzene ND ug/L 0.50 1 0.202/16 02:44 86-03-6 Chlorotheriachloride ND ug/L 0.50 1 0.202/16 02:44 56-23-6 Chlorotheriachloride ND ug/L 0.50 1 0.202/16 02:44 66-03-6 Chlorotheriachloride ND ug/L 0.50 1 0.202/16 02:44 76-00-3 Chlorotheriachloride ND ug/L 0.50 1 0.202/16 02:44 95-49-8 Chlorotoluene ND ug/L 0.50 1 0.202/16 02:44 95-49-8 Chlorotoluene ND ug/L 0.50 1 0.202/16 02:44 106-43-4 106-43-4 108-43	sec-Butylbenzene	ND		0.50	1		02/02/16 02:4	4 135-98-8	
Description	ert-Butylbenzene	ND		0.50	1		02/02/16 02:4	4 98-06-6	
Chloroethane	Carbon tetrachloride	ND		0.50	1		02/02/16 02:4	4 56-23-5	
Chlorotethane	Chlorobenzene			0.50	1				
Chloroform ND	Chloroethane	ND		1.0	1		02/02/16 02:4	4 75-00-3	
Chloromethane	Chloroform		_	0.50	1		02/02/16 02:4	4 67-66-3	
Part	Chloromethane	ND	-	1.0	1		02/02/16 02:4	4 74-87-3	
Public P	2-Chlorotoluene		-		1				
2-Dibromo-3-chloropropane ND ug/L 1.0 1 02/02/16 02:44 96-12-8			-				02/02/16 02:4	4 106-43-4	
Dibromochloromethane ND									
1,2-Dibromoethane (EDB) ND									
Dibromomethane ND									
2-Dichlorobenzene ND ug/L 0.50 1 02/02/16 02:44 95-50-1 3-Dichlorobenzene ND ug/L 0.50 1 02/02/16 02:44 541-73-1 4-Dichlorobenzene ND ug/L 0.50 1 02/02/16 02:44 541-73-1 4-Dichlorobenzene ND ug/L 0.50 1 02/02/16 02:44 75-71-8 02-10-10-10-10-10-10-10-10-10-10-10-10-10-			-						
ND			-						
A-Dichlorobenzene ND ug/L 0.50 1 02/02/16 02:44 106-46-7 Dichlorodifluoromethane ND ug/L 0.50 1 02/02/16 02:44 75-71-8 A-Dichlorodifluoromethane ND ug/L 0.50 1 02/02/16 02:44 75-34-3 A-Dichloroethane ND ug/L 0.50 1 02/02/16 02:44 107-06-2 A-Dichloroethane ND ug/L 0.50 1 02/02/16 02:44 107-06-2 A-Dichloroethene ND ug/L 0.50 1 02/02/16 02:44 107-06-2 A-Dichloroethene ND ug/L 0.50 1 02/02/16 02:44 156-59-2 A-Dichloroethene ND ug/L 0.50 1 02/02/16 02:44 156-60-5 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 156-60-5 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 142-28-9 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 142-28-9 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 142-28-9 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 563-58-6 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 10061-01-5 A-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 10061-01-5 A-DICHLOROPROPANE ND ug/L 0.50 1 02/02/16 02:44 10061-02-6 A-DICHLOROPROPANE ND ug/L 0.50 1 02/02/16 02:44 100-41-4 A-DICHLOROPROPANE ND ug/L 0.50 1 02/02/16 02:44	,								
Dichlorodifluoromethane			_						
1,1-Dichloroethane	•		-						
2-Dichloroethane ND			-						
1,1-Dichloroethene			-						
Discription ND Ug/L 0.50 1 02/02/16 02:44 156-59-2 1 156-59-2 1 156-59-2 1 156-59-2 1 156-60-5	•								
rans-1,2-Dichloroethene ND ug/L 0.50 1 02/02/16 02:44 156-60-5 1,2-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 78-87-5 1,3-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 142-28-9 2,2-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 594-20-7 1,1-Dichloropropane ND ug/L 0.50 1 02/02/16 02:44 594-20-7 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 563-58-6 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 10061-01-5 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 10061-01-5 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 10061-02-6 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 10061-02-6 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 100-41-4 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 1,1-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 1,1-Dichloropropene ND ug/L									
1,2-Dichloropropane ND	•								
3.3-Dichloropropane ND	·								
ND	' ' '								
1-Dichloropropene									
ND									
rans-1,3-Dichloropropene ND ug/L 0.50 1 02/02/16 02:44 10061-02-6 Diisopropyl ether ND ug/L 0.50 1 02/02/16 02:44 108-20-3 Ethylbenzene ND ug/L 0.50 1 02/02/16 02:44 100-41-4 Hexachloro-1,3-butadiene ND ug/L 2.0 1 02/02/16 02:44 87-68-3 sopropylbenzene (Cumene) ND ug/L 0.50 1 02/02/16 02:44 88-82-8 Methylene Chloride ND ug/L 2.0 1 02/02/16 02:44 75-09-2 Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 103-65-1 NP-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	• •								
Diisopropyl ether ND ug/L 0.50 1 02/02/16 02:44 108-20-3 Ethylbenzene ND ug/L 0.50 1 02/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 108-20-3 102/02/16 02:44 100-41-4 102/02/16 02:44 103-63-1 102/02/16 02:44 103-65-1 103-	· ·		-						
Ethylbenzene ND ug/L 0.50 1 02/02/16 02:44 100-41-4 dexachloro-1,3-butadiene ND ug/L 2.0 1 02/02/16 02:44 87-68-3 sopropylbenzene (Cumene) ND ug/L 0.50 1 02/02/16 02:44 98-82-8 Methylene Chloride ND ug/L 2.0 1 02/02/16 02:44 75-09-2 Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 91-20-3 n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5			•						
Hexachloro-1,3-butadiene ND ug/L 2.0 1 02/02/16 02:44 87-68-3 sopropylbenzene (Cumene) ND ug/L 0.50 1 02/02/16 02:44 98-82-8 Methylene Chloride ND ug/L 2.0 1 02/02/16 02:44 75-09-2 Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 (1,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 (1,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5			-						
sopropylbenzene (Cumene) ND ug/L 0.50 1 02/02/16 02:44 98-82-8 Methylene Chloride ND ug/L 2.0 1 02/02/16 02:44 75-09-2 Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 91-20-3 n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 ,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 ,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5			_						
Methylene Chloride ND ug/L 2.0 1 02/02/16 02:44 75-09-2 Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 91-20-3 n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 1,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	-		-						
Methyl-tert-butyl ether ND ug/L 0.50 1 02/02/16 02:44 1634-04-4 Naphthalene ND ug/L 2.0 1 02/02/16 02:44 91-20-3 n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	,		-						
Naphthalene ND ug/L 2.0 1 02/02/16 02:44 91-20-3 n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	•		-						
n-Propylbenzene ND ug/L 0.50 1 02/02/16 02:44 103-65-1 Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	,		-						
Styrene ND ug/L 0.50 1 02/02/16 02:44 100-42-5 I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	•		-						
I,1,1,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 630-20-6 I,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	7 7								
1,1,2,2-Tetrachloroethane ND ug/L 0.50 1 02/02/16 02:44 79-34-5	•		-						
• • •			-						
	1,1,2,2-Tetrachloroethane Tetrachloroethene	ИD ND	ug/L ug/L	0.50 0.50	1 1				



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-5	Lab ID: 922	84408004	Collected: 01/26/	16 13:08	Received: 01/2	27/16 09:50 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 02:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 02:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 02:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 02:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 02:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 02:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 02:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 02:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 02:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 02:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 02:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 02:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/02/16 02:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		02/02/16 02:44	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/02/16 02:44	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		02/02/16 02:44	2037-26-5	



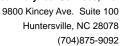
ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-9	Lab ID: 922	284408005	Collected: 01/26/1	6 13:34	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/02/16 03:01	1 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/02/16 03:01	1 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/02/16 03:01	1 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/02/16 03:01	1 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/02/16 03:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/16 03:01	1 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:01	1 104-51-8	
sec-Butylbenzene	1.3	ug/L	0.50	1		02/02/16 03:01	1 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:01	1 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/02/16 03:01	1 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/02/16 03:01	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/02/16 03:01	1 75-00-3	
Chloroform	ND	ug/L	0.50	1		02/02/16 03:01		
Chloromethane	ND	ug/L	1.0	1		02/02/16 03:01		
2-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:01	1 95-49-8	
l-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:01		
,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/02/16 03:0		
Dibromochloromethane	ND	ug/L	0.50	1		02/02/16 03:01		
,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/02/16 03:01		
Dibromomethane	ND	ug/L	0.50	1		02/02/16 03:01		
,2-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 03:01		
,3-Dichlorobenzene	ND ND	ug/L	0.50	1		02/02/16 03:0		
,4-Dichlorobenzene	0.51	ug/L	0.50	1		02/02/16 03:0		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/02/16 03:0		
,1-Dichloroethane	ND ND	•	0.50	1		02/02/16 03:0		
,2-Dichloroethane	ND ND	ug/L	0.50	1		02/02/16 03:0		
,1-Dichloroethene	ND ND	ug/L	0.50	1		02/02/16 03:0		
is-1,2-Dichloroethene	ND ND	ug/L	0.50	1		02/02/16 03:0		
•		ug/L		1				
rans-1,2-Dichloroethene	ND	ug/L	0.50			02/02/16 03:01		
,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:01		
,3-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:01		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:01		
,1-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:01		
sis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:01		
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:01		
Diisopropyl ether	ND	ug/L	0.50	1		02/02/16 03:01		
thylbenzene	ND	ug/L	0.50	1		02/02/16 03:01		
lexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/02/16 03:01		
sopropylbenzene (Cumene)	0.97	ug/L	0.50	1		02/02/16 03:01		
Methylene Chloride	ND	ug/L	2.0	1		02/02/16 03:01		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/02/16 03:01		
laphthalene	18.4	ug/L	2.0	1		02/02/16 03:01		
-Propylbenzene	2.0	ug/L	0.50	1		02/02/16 03:01		
Styrene	ND	ug/L	0.50	1		02/02/16 03:01	1 100-42-5	
,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:01		
,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:01	1 79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		02/02/16 03:01	1 127-18-4	





Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-9	Lab ID: 922	Lab ID: 92284408005		16 13:34	Received: 01	/27/16 09:50 N	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 03:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 03:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 03:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 03:01	96-18-4	
1,2,4-Trimethylbenzene	8.5	ug/L	0.50	1		02/02/16 03:01	95-63-6	
1,3,5-Trimethylbenzene	16.3	ug/L	0.50	1		02/02/16 03:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 03:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 03:01	179601-23-1	
o-Xylene	1.2	ug/L	0.50	1		02/02/16 03:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/02/16 03:01	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/02/16 03:01	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		02/02/16 03:01	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-10	Lab ID: 922	84408006	Collected: 01/26/1	6 11:08	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/02/16 03:1	8 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/02/16 03:1	8 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/02/16 03:1	8 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/02/16 03:1	8 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/16 03:1	8 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/02/16 03:1	8 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/02/16 03:1		
Chloroform	ND	ug/L	0.50	1		02/02/16 03:1		
Chloromethane	ND	ug/L	1.0	1		02/02/16 03:1		
2-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:1		
4-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/02/16 03:1		
Dibromochloromethane	ND	ug/L	0.50	1		02/02/16 03:1		
,2-Dibromoethane (EDB)	ND ND	ug/L ug/L	0.50	1		02/02/16 03:1		
Dibromomethane	ND ND	ug/L ug/L	0.50	1		02/02/16 03:1		
1,2-Dichlorobenzene	ND		0.50	1		02/02/16 03:1		
,	ND ND	ug/L	0.50	1		02/02/16 03:1		
1,3-Dichlorobenzene		ug/L		1				
I,4-Dichlorobenzene	ND	ug/L	0.50			02/02/16 03:1		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/02/16 03:1		
1,1-Dichloroethane	ND	ug/L	0.50	1		02/02/16 03:1		
1,2-Dichloroethane	ND	ug/L	0.50	1		02/02/16 03:1		
1,1-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:1		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:1		
rans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:1		
1,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:1		
1,3-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:1		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:1		
1,1-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:1		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:1	8 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:1	8 10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		02/02/16 03:1	8 108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/02/16 03:1	8 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/02/16 03:1	8 98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		02/02/16 03:1	8 75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/02/16 03:1	8 1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/02/16 03:1	8 91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		02/02/16 03:1	8 103-65-1	
Styrene	ND	ug/L	0.50	1		02/02/16 03:1	8 100-42-5	
,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:1		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:1		
Tetrachloroethene	ND	ug/L	0.50	1		02/02/16 03:1		



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: MW-10	Lab ID: 922	Lab ID: 92284408006		16 11:08	Received: 01	1/27/16 09:50 N	/latrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 03:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 03:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 03:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 03:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 03:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 03:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/02/16 03:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/02/16 03:18	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/02/16 03:18	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		02/02/16 03:18	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-2	Lab ID: 922	84408007	Collected: 01/26/1	16 14:25	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/02/16 03:35	5 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/02/16 03:35	74-97-5	
Bromodichloromethane	5.4	ug/L	0.50	1		02/02/16 03:35	5 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/02/16 03:35	5 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/16 03:35	74-83-9	
-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 104-51-8	
ec-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/02/16 03:35	5 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/02/16 03:35	5 75-00-3	
Chloroform	11.8	ug/L	0.50	1		02/02/16 03:35		
Chloromethane	ND	ug/L	1.0	1		02/02/16 03:35		
-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:35		
-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:35		
,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/02/16 03:35		
Dibromochloromethane	1.3	ug/L	0.50	1		02/02/16 03:35		
,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/02/16 03:35		
Dibromomethane	ND	ug/L	0.50	1		02/02/16 03:35		
,2-Dichlorobenzene	ND ND	ug/L	0.50	1		02/02/16 03:35		
,3-Dichlorobenzene	ND ND	ug/L ug/L	0.50	1		02/02/16 03:35		
,4-Dichlorobenzene	ND ND	ug/L	0.50	1		02/02/16 03:35		
ichlorodifluoromethane	ND ND	•	0.50	1		02/02/16 03:35		
		ug/L		1				
,1-Dichloroethane	ND	ug/L	0.50			02/02/16 03:35		
,2-Dichloroethane	ND	ug/L	0.50	1 1		02/02/16 03:35		
,1-Dichloroethene	ND	ug/L	0.50			02/02/16 03:35		
is-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:35		
ans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:35		
,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:35		
,3-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:35		
,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:35		
,1-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:35		
is-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:35		
ans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:35		
iisopropyl ether	ND	ug/L	0.50	1		02/02/16 03:35		
thylbenzene	ND	ug/L	0.50	1		02/02/16 03:35		
lexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/02/16 03:35		
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/02/16 03:35	5 98-82-8	
lethylene Chloride	ND	ug/L	2.0	1		02/02/16 03:35	5 75-09-2	
lethyl-tert-butyl ether	ND	ug/L	0.50	1		02/02/16 03:35	5 1634-04-4	
laphthalene	ND	ug/L	2.0	1		02/02/16 03:35	5 91-20-3	
-Propylbenzene	ND	ug/L	0.50	1		02/02/16 03:35		
tyrene	ND	ug/L	0.50	1		02/02/16 03:35	5 100-42-5	
,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:35	630-20-6	
,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:35	5 79-34-5	
etrachloroethene	ND	ug/L	0.50	1		02/02/16 03:35	5 127-18-4	



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-2	Lab ID: 922	84408007	Collected: 01/26/	16 14:25	Received: 01	/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 03:35	5 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:35	5 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:35	5 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:35	5 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:35	5 79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 03:35	5 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 03:35	5 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 03:35	5 96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:35	5 108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 03:35	5 75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 03:35	5 179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/02/16 03:35	5 95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/02/16 03:35	5 17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/02/16 03:35	5 460-00-4	
Toluene-d8 (S)	99	%	70-130	1		02/02/16 03:35	5 2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-4	Lab ID: 922	284408008	Collected: 01/26/1	16 14:45	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
5200B MSV	Analytical Met	hod: SM 620	00B					
Benzene	ND	ug/L	0.50	1		02/02/16 03:52	2 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/02/16 03:52	2 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/02/16 03:52	2 74-97-5	
Bromodichloromethane	6.0	ug/L	0.50	1		02/02/16 03:52	2 75-27-4	
Bromoform	ND	ug/L	0.50	1		02/02/16 03:52	2 75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/16 03:52	2 74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	2 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	2 135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/02/16 03:52		
Carbon tetrachloride	ND	ug/L	0.50	1		02/02/16 03:52		
Chlorobenzene	ND	ug/L	0.50	1		02/02/16 03:52		
Chloroethane	ND	ug/L	1.0	1		02/02/16 03:52		
Chloroform	13.3	ug/L	0.50	1		02/02/16 03:52		
Chloromethane	ND	ug/L	1.0	1		02/02/16 03:52		
2-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:52		
-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 03:52		
,2-Dibromo-3-chloropropane	ND ND	ug/L ug/L	1.0	1		02/02/16 03:52		
Dibromochloromethane	1.3	ug/L	0.50	1		02/02/16 03:52		
,2-Dibromoethane (EDB)	ND	ug/L ug/L	0.50	1		02/02/16 03:52		
Dibromomethane	ND ND	_	0.50	1		02/02/16 03:52		
		ug/L		1				
,2-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 03:52		
,3-Dichlorobenzene	ND	ug/L	0.50			02/02/16 03:52		
,4-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 03:52		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/02/16 03:52		
,1-Dichloroethane	ND	ug/L	0.50	1		02/02/16 03:52		
,2-Dichloroethane	ND	ug/L	0.50	1		02/02/16 03:52		
,1-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:52		
is-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:52		
rans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 03:52		
,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:52		
,3-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:52		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 03:52		
,1-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:52		
is-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:52		
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 03:52		
Diisopropyl ether	ND	ug/L	0.50	1		02/02/16 03:52	2 108-20-3	
thylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	2 100-41-4	
lexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/02/16 03:52	2 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/02/16 03:52	98-82-8	
lethylene Chloride	ND	ug/L	2.0	1		02/02/16 03:52	2 75-09-2	
Nethyl-tert-butyl ether	ND	ug/L	0.50	1		02/02/16 03:52	2 1634-04-4	
laphthalene	ND	ug/L	2.0	1		02/02/16 03:52	2 91-20-3	
-Propylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	2 103-65-1	
Styrene	ND	ug/L	0.50	1		02/02/16 03:52	2 100-42-5	
,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:52		
,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		02/02/16 03:52		
Tetrachloroethene	ND	ug/L	0.50	1		02/02/16 03:52		



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-4	Lab ID: 92284408008		Collected: 01/26/1	6 14:45	Received: 01	/27/16 09:50 N	/latrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 03:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 03:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 03:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 03:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 03:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 03:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 03:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 03:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 03:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/02/16 03:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		02/02/16 03:52	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/02/16 03:52	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		02/02/16 03:52	2037-26-5	



ANALYTICAL RESULTS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-5	Lab ID: 922	284408009	Collected: 01/26/1	16 15:10	Received:	01/27/16 09:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
5200B MSV	Analytical Met	hod: SM 62	00B					
Benzene	ND	ug/L	0.50	1		02/02/16 04:09	9 71-43-2	
Bromobenzene	ND	ug/L	0.50	1		02/02/16 04:09	9 108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		02/02/16 04:09	9 74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		02/02/16 04:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		02/02/16 04:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/16 04:09	74-83-9	M1
n-Butylbenzene	ND	ug/L	0.50	1		02/02/16 04:09	9 104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		02/02/16 04:09	135-98-8	
ert-Butylbenzene	ND	ug/L	0.50	1		02/02/16 04:09	9 98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		02/02/16 04:09	9 56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		02/02/16 04:09	9 108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/02/16 04:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		02/02/16 04:09	9 67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/02/16 04:09	9 74-87-3	M1
2-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 04:09	9 95-49-8	
1-Chlorotoluene	ND	ug/L	0.50	1		02/02/16 04:09	9 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		02/02/16 04:09		
Dibromochloromethane	ND	ug/L	0.50	1		02/02/16 04:09	9 124-48-1	
,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		02/02/16 04:09		
Dibromomethane	ND	ug/L	0.50	1		02/02/16 04:09		
I,2-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 04:09		
I,3-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 04:09		
,4-Dichlorobenzene	ND	ug/L	0.50	1		02/02/16 04:09		
Dichlorodifluoromethane	ND	ug/L	0.50	1		02/02/16 04:09		M1
I,1-Dichloroethane	ND	ug/L	0.50	1		02/02/16 04:09		
I,2-Dichloroethane	ND	ug/L	0.50	1		02/02/16 04:09		
1,1-Dichloroethene	ND	ug/L	0.50	1		02/02/16 04:09		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 04:09		
rans-1,2-Dichloroethene	ND	ug/L	0.50	1		02/02/16 04:09		
I,2-Dichloropropane	1.7	ug/L	0.50	1		02/02/16 04:09		
1,3-Dichloropropane	ND	ug/L	0.50	1		02/02/16 04:09		
2,2-Dichloropropane	ND	ug/L	0.50	1		02/02/16 04:09		
I,1-Dichloropropene	ND	ug/L	0.50	1		02/02/16 04:09		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 04:09		
rans-1,3-Dichloropropene	ND	ug/L	0.50	1		02/02/16 04:09		
Diisopropyl ether	ND	ug/L	0.50	1		02/02/16 04:09		
Ethylbenzene	ND	ug/L	0.50	1		02/02/16 04:09		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/02/16 04:09		
sopropylbenzene (Cumene)	ND	ug/L	0.50	1		02/02/16 04:09		
Methylene Chloride	ND	ug/L	2.0	1		02/02/16 04:0		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		02/02/16 04:0		
Naphthalene	ND ND	ug/L ug/L	2.0	1		02/02/16 04:09		
n-Propylbenzene	ND ND	ug/L ug/L	0.50	1		02/02/16 04:0		
Styrene	ND ND	ug/L ug/L	0.50	1		02/02/16 04:09		
,1,1,2-Tetrachloroethane	ND ND	-	0.50	1		02/02/16 04:09		
1,1,1,2-Tetrachioroethane	ND ND	ug/L ug/L	0.50	1		02/02/16 04:09		



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Sample: WSW-5	Lab ID: 922	84408009	Collected: 01/26/1	6 15:10	Received: 01	/27/16 09:50 N	Natrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6200B MSV	Analytical Meth	nod: SM 620	00B					
Toluene	ND	ug/L	0.50	1		02/02/16 04:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 04:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		02/02/16 04:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		02/02/16 04:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		02/02/16 04:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		02/02/16 04:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/02/16 04:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		02/02/16 04:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 04:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		02/02/16 04:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/02/16 04:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		02/02/16 04:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		02/02/16 04:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/02/16 04:09	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/02/16 04:09	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		02/02/16 04:09	2037-26-5	



QUALITY CONTROL DATA

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

QC Batch: MSV/35395 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV

Associated Lab Samples: 92284408001, 92284408002, 92284408003

METHOD BLANK: 1657756 Matrix: Water

Associated Lab Samples: 92284408001, 92284408002, 92284408003

·	,	Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND ND	0.50	02/01/16 15:10	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/01/16 15:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/01/16 15:10	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/01/16 15:10	
1,1-Dichloroethane	ug/L	ND	0.50	02/01/16 15:10	
1,1-Dichloroethene	ug/L	ND	0.50	02/01/16 15:10	
1,1-Dichloropropene	ug/L	ND	0.50	02/01/16 15:10	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/01/16 15:10	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/01/16 15:10	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/01/16 15:10	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/01/16 15:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/01/16 15:10	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/01/16 15:10	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/01/16 15:10	
1,2-Dichloroethane	ug/L	ND	0.50	02/01/16 15:10	
1,2-Dichloropropane	ug/L	ND	0.50	02/01/16 15:10	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/01/16 15:10	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/01/16 15:10	
1,3-Dichloropropane	ug/L	ND	0.50	02/01/16 15:10	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/01/16 15:10	
2,2-Dichloropropane	ug/L	ND	0.50	02/01/16 15:10	
2-Chlorotoluene	ug/L	ND	0.50	02/01/16 15:10	
4-Chlorotoluene	ug/L	ND	0.50	02/01/16 15:10	
Benzene	ug/L	ND	0.50	02/01/16 15:10	
Bromobenzene	ug/L	ND	0.50	02/01/16 15:10	
Bromochloromethane	ug/L	ND	0.50	02/01/16 15:10	
Bromodichloromethane	ug/L	ND	0.50	02/01/16 15:10	
Bromoform	ug/L	ND	0.50	02/01/16 15:10	
Bromomethane	ug/L	ND	5.0	02/01/16 15:10	
Carbon tetrachloride	ug/L	ND	0.50	02/01/16 15:10	
Chlorobenzene	ug/L	ND	0.50	02/01/16 15:10	
Chloroethane	ug/L	ND	1.0	02/01/16 15:10	
Chloroform	ug/L	ND	0.50	02/01/16 15:10	
Chloromethane	ug/L	ND	1.0	02/01/16 15:10	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/01/16 15:10	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/01/16 15:10	
Dibromochloromethane	ug/L	ND	0.50	02/01/16 15:10	
Dibromomethane	ug/L	ND	0.50	02/01/16 15:10	
Dichlorodifluoromethane	ug/L	ND	0.50	02/01/16 15:10	
Diisopropyl ether	ug/L	ND	0.50	02/01/16 15:10	
Ethylbenzene	ug/L	ND	0.50	02/01/16 15:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

METHOD BLANK: 1657756 Matrix: Water

Associated Lab Samples: 92284408001, 92284408002, 92284408003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
					Qualificity
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/01/16 15:10	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/01/16 15:10	
m&p-Xylene	ug/L	ND	1.0	02/01/16 15:10	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/01/16 15:10	
Methylene Chloride	ug/L	ND	2.0	02/01/16 15:10	
n-Butylbenzene	ug/L	ND	0.50	02/01/16 15:10	
n-Propylbenzene	ug/L	ND	0.50	02/01/16 15:10	
Naphthalene	ug/L	ND	2.0	02/01/16 15:10	
o-Xylene	ug/L	ND	0.50	02/01/16 15:10	
sec-Butylbenzene	ug/L	ND	0.50	02/01/16 15:10	
Styrene	ug/L	ND	0.50	02/01/16 15:10	
tert-Butylbenzene	ug/L	ND	0.50	02/01/16 15:10	
Tetrachloroethene	ug/L	ND	0.50	02/01/16 15:10	
Toluene	ug/L	ND	0.50	02/01/16 15:10	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/01/16 15:10	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/01/16 15:10	
Trichloroethene	ug/L	ND	0.50	02/01/16 15:10	
Trichlorofluoromethane	ug/L	ND	1.0	02/01/16 15:10	
Vinyl chloride	ug/L	ND	1.0	02/01/16 15:10	
1,2-Dichloroethane-d4 (S)	%	99	70-130	02/01/16 15:10	
4-Bromofluorobenzene (S)	%	100	70-130	02/01/16 15:10	
Toluene-d8 (S)	%	101	70-130	02/01/16 15:10	

LABORATORY CONTROL SAMPLE:	1657757					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	_
1,1,1-Trichloroethane	ug/L	50	46.7	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.6	97	60-140	
1,1,2-Trichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethane	ug/L	50	45.4	91	60-140	
1,1-Dichloroethene	ug/L	50	45.2	90	60-140	
1,1-Dichloropropene	ug/L	50	47.3	95	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,3-Trichloropropane	ug/L	50	50.6	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.5	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.6	99	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.2	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	60-140	
1,2-Dichlorobenzene	ug/L	50	48.5	97	60-140	
1,2-Dichloroethane	ug/L	50	42.2	84	60-140	
1,2-Dichloropropane	ug/L	50	46.4	93	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,3-Dichlorobenzene	ug/L	50	49.3	99	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FLOWERS STORE PROPERTY

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LABORATORY CONTROL SAMPLE	: 1657757	Spike	LCS	LCS	% Rec	
Parameter	Units	Spike Conc.	Result	% Rec	% Rec Limits	Qualifier
,3-Dichloropropane	ug/L		48.1	96	60-140	
1,4-Dichlorobenzene	ug/L	50	49.0	98	60-140	
2,2-Dichloropropane	ug/L	50	48.3	97	60-140	
2-Chlorotoluene	ug/L	50 50	48.3 47.2	94	60-140	
4-Chlorotoluene		50 50	47.2 47.7	94 95	60-140	
	ug/L	50 50				
Benzene Bramahanzana	ug/L	50 50	48.9	98	60-140	
Bromobenzene	ug/L		49.0	98	60-140	
Bromochloromethane	ug/L	50	46.8	94	60-140	
Bromodichloromethane	ug/L	50	49.3	99	60-140	
Bromoform	ug/L	50	60.1	120	60-140	
Bromomethane	ug/L	50	34.6	69	60-140	
Carbon tetrachloride	ug/L	50	49.0	98	60-140	
Chlorobenzene	ug/L	50	47.3	95	60-140	
Chloroethane	ug/L	50	45.9	92	60-140	
Chloroform	ug/L	50	44.9	90	60-140	
Chloromethane	ug/L	50	37.3	75	60-140	
sis-1,2-Dichloroethene	ug/L	50	44.3	89	60-140	
is-1,3-Dichloropropene	ug/L	50	49.7	99	60-140	
Dibromochloromethane	ug/L	50	56.3	113	60-140	
Dibromomethane	ug/L	50	49.0	98	60-140	
Dichlorodifluoromethane	ug/L	50	30.2	60	60-140	
Diisopropyl ether	ug/L	50	47.6	95	60-140	
Ethylbenzene	ug/L	50	46.8	94	60-140	
lexachloro-1,3-butadiene	ug/L	50	52.5	105	60-140	
sopropylbenzene (Cumene)	ug/L	50	46.6	93	60-140	
n&p-Xylene	ug/L	100	92.6	93	60-140	
Nethyl-tert-butyl ether	ug/L	50	49.8	100	60-140	
Methylene Chloride	ug/L	50	43.8	88	60-140	
-Butylbenzene	ug/L	50	49.1	98	60-140	
n-Propylbenzene	ug/L	50	46.8	94	60-140	
Naphthalene	ug/L	50	52.5	105	60-140	
o-Xylene	ug/L	50	45.8	92	60-140	
ec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	49.6	99	60-140	
ert-Butylbenzene	ug/L	50	39.6	79	60-140	
etrachloroethene	ug/L	50	46.4	93	60-140	
oluene	ug/L	50	45.5	91	60-140	
rans-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
rans-1,3-Dichloropropene	ug/L	50	50.0	100	60-140	
richloroethene	ug/L	50	45.4	91	60-140	
richlorofluoromethane	ug/L	50	43.3	87	60-140	
/inyl chloride	ug/L	50 50	41.1	82	60-140	
1,2-Dichloroethane-d4 (S)	ug/∟ %	50	41.1	98	70-130	
I-Bromofluorobenzene (S)	%			103	70-130 70-130	
Foluene-d8 (S)	% %			103	70-130 70-130	

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Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

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IATRIX SPIKE & MATRIX SPIKE	DUPLICAT	E: 16577	1657758								
			MS	MSD							
		284408003	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD _	Qua
1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.8	21.6	104	108	60-140	4	
1,1-Trichloroethane	ug/L	ND	20	20	22.1	22.2	111	111	60-140	0	
1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.3	20.7	101	104	60-140	2	
1,2-Trichloroethane	ug/L	ND	20	20	20.8	20.9	104	105	60-140	1	
1-Dichloroethane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1	
1-Dichloroethene	ug/L	ND	20	20	22.4	22.2	112	111	60-140	1	
1-Dichloropropene	ug/L	ND	20	20	22.3	22.4	112	112	60-140	0	
2,3-Trichlorobenzene	ug/L	ND	20	20	21.1	22.4	106	112	60-140	6	
2,3-Trichloropropane	ug/L	ND	20	20	20.9	21.7	104	108	60-140	4	
2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
2,4-Trimethylbenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4	
2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.9	21.8	104	109	60-140	4	
2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	22.1	106	111	60-140	4	
2-Dichlorobenzene	ug/L	ND	20	20	20.1	21.1	101	105	60-140	5	
2-Dichloroethane	ug/L	ND	20	20	19.6	19.8	97	98	60-140	1	
2-Dichloropropane	ug/L	ND	20	20	20.3	20.7	102	103	60-140	2	
3,5-Trimethylbenzene	ug/L	ND	20	20	20.4	21.2	102	106	60-140	4	
B-Dichlorobenzene	ug/L	ND	20	20	20.5	21.5	102	107	60-140	5	
B-Dichloropropane	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2	
1-Dichlorobenzene	ug/L	ND	20	20	20.6	21.6	102	107	60-140	5	
2-Dichloropropane	ug/L	ND	20	20	21.0	21.3	105	106	60-140	1	
Chlorotoluene	ug/L	ND	20	20	19.7	20.6	98	103	60-140	5	
Chlorotoluene	ug/L	ND	20	20	20.2	21.2	101	106	60-140	5	
enzene	ug/L	ND	20	20	22.2	22.2	111	111	60-140	0	
omobenzene	ug/L	ND	20	20	21.5	22.8	107	114	60-140	6	
omochloromethane	ug/L	ND	20	20	20.9	21.2	107	106	60-140	1	
omodichloromethane	ug/L ug/L	ND	20	20	20.9	21.2	103	105	60-140	2	
omoform	_	ND	20	20	19.0	20.6	95	103	60-140	8	
omomethane	ug/L	ND	20	20	16.1	15.2	95 81	76	60-140	6	
	ug/L	ND				22.2					
arbon tetrachloride	ug/L	ND	20	20	21.6		108	111	60-140	3	
nlorobenzene	ug/L	ND ND	20	20	20.4	21.2	102	106	60-140	4	
nloroethane	ug/L	ND ND	20	20	23.5	23.0	118	115	60-140	2	
nloroform	ug/L	ND ND	20	20	20.6	21.1	103	106	60-140	3	
nloromethane	ug/L	ND ND	20	20	19.7	19.9	98	100	60-140	1	
s-1,2-Dichloroethene	ug/L	ND ND	20	20	20.9	21.2	105	106	60-140	1	
s-1,3-Dichloropropene	ug/L		20	20	20.2	20.8	101	104	60-140	3	
bromochloromethane	ug/L	ND	20	20	20.4	22.1	102	110	60-140	8	
oromomethane	ug/L	ND	20	20	21.6	21.5	108	108	60-140	0	
chlorodifluoromethane	ug/L	ND	20	20	20.4	20.7	102	104	60-140	1	
sopropyl ether	ug/L	ND	20	20	21.3	21.6	107	108	60-140	1	
hylbenzene	ug/L	ND	20	20	20.5	21.2	102	106	60-140	3	
exachloro-1,3-butadiene	ug/L	ND	20	20	20.1	20.8	101	104	60-140	3	
propylbenzene (Cumene)	ug/L	ND	20	20	20.3	21.1	102	105	60-140	4	
&p-Xylene	ug/L	ND	40	40	40.8	42.2	102	106	60-140	3	
ethyl-tert-butyl ether	ug/L	ND	20	20	22.1	22.6	111	113	60-140	2	
ethylene Chloride	ug/L	ND	20	20	20.1	20.1	99	99	60-140	0	

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Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

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MATRIX SPIKE & MATRIX SPIR	KE DUPLICAT	E: 16577	58		1657759						
			MS	MSD							
	922	284408003	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	20.1	20.8	101	104	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.1	21.0	100	105	60-140	5	
Naphthalene	ug/L	ND	20	20	21.3	22.5	107	112	60-140	5	
o-Xylene	ug/L	ND	20	20	20.2	20.8	101	104	60-140	3	
sec-Butylbenzene	ug/L	ND	20	20	19.9	20.9	100	105	60-140	5	
Styrene	ug/L	ND	20	20	20.7	21.3	103	106	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	17.0	17.8	85	89	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20.4	21.2	102	106	60-140	4	
Toluene	ug/L	ND	20	20	20.5	20.9	102	104	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	21.7	105	108	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.1	20.6	100	103	60-140	3	
Trichloroethene	ug/L	ND	20	20	20.7	20.9	104	105	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.2	22.5	111	113	60-140	2	
Vinyl chloride	ug/L	ND	20	20	21.7	22.1	109	111	60-140	2	
1,2-Dichloroethane-d4 (S)	%						103	100	70-130		
4-Bromofluorobenzene (S)	%						101	102	70-130		
Toluene-d8 (S)	%						100	99	70-130		

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QUALITY CONTROL DATA

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

QC Batch: MSV/35397 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV

Associated Lab Samples: 92284408004, 92284408005, 92284408006, 92284408007, 92284408008, 92284408009

METHOD BLANK: 1657779 Matrix: Water

Associated Lab Samples: 92284408004, 92284408005, 92284408006, 92284408007, 92284408008, 92284408009

	,	Blank	Reporting	•	
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,1,1-Trichloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,1,2-Trichloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,1-Dichloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,1-Dichloroethene	ug/L	ND	0.50	02/02/16 02:27	
1,1-Dichloropropene	ug/L	ND	0.50	02/02/16 02:27	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	02/02/16 02:27	
1,2,3-Trichloropropane	ug/L	ND	0.50	02/02/16 02:27	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	02/02/16 02:27	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	02/02/16 02:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	02/02/16 02:27	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	02/02/16 02:27	
1,2-Dichlorobenzene	ug/L	ND	0.50	02/02/16 02:27	
1,2-Dichloroethane	ug/L	ND	0.50	02/02/16 02:27	
1,2-Dichloropropane	ug/L	ND	0.50	02/02/16 02:27	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	02/02/16 02:27	
1,3-Dichlorobenzene	ug/L	ND	0.50	02/02/16 02:27	
1,3-Dichloropropane	ug/L	ND	0.50	02/02/16 02:27	
1,4-Dichlorobenzene	ug/L	ND	0.50	02/02/16 02:27	
2,2-Dichloropropane	ug/L	ND	0.50	02/02/16 02:27	
2-Chlorotoluene	ug/L	ND	0.50	02/02/16 02:27	
4-Chlorotoluene	ug/L	ND	0.50	02/02/16 02:27	
Benzene	ug/L	ND	0.50	02/02/16 02:27	
Bromobenzene	ug/L	ND	0.50	02/02/16 02:27	
Bromochloromethane	ug/L	ND	0.50	02/02/16 02:27	
Bromodichloromethane	ug/L	ND	0.50	02/02/16 02:27	
Bromoform	ug/L	ND	0.50	02/02/16 02:27	
Bromomethane	ug/L	ND	5.0	02/02/16 02:27	
Carbon tetrachloride	ug/L	ND	0.50	02/02/16 02:27	
Chlorobenzene	ug/L	ND	0.50	02/02/16 02:27	
Chloroethane	ug/L	ND	1.0	02/02/16 02:27	
Chloroform	ug/L	ND	0.50	02/02/16 02:27	
Chloromethane	ug/L	ND	1.0	02/02/16 02:27	
cis-1,2-Dichloroethene	ug/L	ND	0.50	02/02/16 02:27	
cis-1,3-Dichloropropene	ug/L	ND	0.50	02/02/16 02:27	
Dibromochloromethane	ug/L	ND	0.50	02/02/16 02:27	
Dibromomethane	ug/L	ND	0.50	02/02/16 02:27	
Dichlorodifluoromethane	ug/L	ND	0.50	02/02/16 02:27	
Diisopropyl ether	ug/L	ND	0.50	02/02/16 02:27	
Ethylbenzene	ug/L	ND	0.50	02/02/16 02:27	

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Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

METHOD BLANK: 1657779 Matrix: Water

Associated Lab Samples: 92284408004, 92284408005, 92284408006, 92284408007, 92284408008, 92284408009

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/02/16 02:27	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	02/02/16 02:27	
m&p-Xylene	ug/L	ND	1.0	02/02/16 02:27	
Methyl-tert-butyl ether	ug/L	ND	0.50	02/02/16 02:27	
Methylene Chloride	ug/L	ND	2.0	02/02/16 02:27	
n-Butylbenzene	ug/L	ND	0.50	02/02/16 02:27	
n-Propylbenzene	ug/L	ND	0.50	02/02/16 02:27	
Naphthalene	ug/L	ND	2.0	02/02/16 02:27	
o-Xylene	ug/L	ND	0.50	02/02/16 02:27	
sec-Butylbenzene	ug/L	ND	0.50	02/02/16 02:27	
Styrene	ug/L	ND	0.50	02/02/16 02:27	
tert-Butylbenzene	ug/L	ND	0.50	02/02/16 02:27	
Tetrachloroethene	ug/L	ND	0.50	02/02/16 02:27	
Toluene	ug/L	ND	0.50	02/02/16 02:27	
trans-1,2-Dichloroethene	ug/L	ND	0.50	02/02/16 02:27	
trans-1,3-Dichloropropene	ug/L	ND	0.50	02/02/16 02:27	
Trichloroethene	ug/L	ND	0.50	02/02/16 02:27	
Trichlorofluoromethane	ug/L	ND	1.0	02/02/16 02:27	
Vinyl chloride	ug/L	ND	1.0	02/02/16 02:27	
1,2-Dichloroethane-d4 (S)	%	102	70-130	02/02/16 02:27	
4-Bromofluorobenzene (S)	%	100	70-130	02/02/16 02:27	
Toluene-d8 (S)	%	100	70-130	02/02/16 02:27	

LABORATORY CONTROL SAMPLE:	1657780					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	60-140	_
1,1,1-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	60-140	
1,1,2-Trichloroethane	ug/L	50	46.9	94	60-140	
1,1-Dichloroethane	ug/L	50	45.9	92	60-140	
1,1-Dichloroethene	ug/L	50	47.1	94	60-140	
1,1-Dichloropropene	ug/L	50	47.8	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.4	97	60-140	
1,2,3-Trichloropropane	ug/L	50	48.4	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	46.9	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	60-140	
1,2-Dichlorobenzene	ug/L	50	46.0	92	60-140	
1,2-Dichloroethane	ug/L	50	42.7	85	60-140	
1,2-Dichloropropane	ug/L	50	46.4	93	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.9	92	60-140	
1,3-Dichlorobenzene	ug/L	50	46.7	93	60-140	

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Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

_ABORATORY CONTROL SAMPL	E: 1657780	0"	1.00	1.00	0/ Dr -	
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifier
Parameter						Qualifiers
,3-Dichloropropane	ug/L	50	46.8	94	60-140	
,4-Dichlorobenzene	ug/L	50	46.7	93	60-140	
2,2-Dichloropropane	ug/L	50	43.1	86	60-140	
2-Chlorotoluene	ug/L	50	44.2	88	60-140	
-Chlorotoluene	ug/L	50	45.1	90	60-140	
Senzene	ug/L	50	49.4	99	60-140	
Bromobenzene	ug/L	50	44.6	89	60-140	
romochloromethane	ug/L	50	47.1	94	60-140	
Bromodichloromethane	ug/L	50	47.8	96	60-140	
Bromoform	ug/L	50	51.4	103	60-140	
Bromomethane	ug/L	50	38.0	76	60-140	
Carbon tetrachloride	ug/L	50	49.5	99	60-140	
Chlorobenzene	ug/L	50	46.4	93	60-140	
Chloroethane	ug/L	50	47.9	96	60-140	
Chloroform	ug/L	50	45.5	91	60-140	
Chloromethane	ug/L	50	43.9	88	60-140	
is-1,2-Dichloroethene	ug/L	50	45.2	90	60-140	
is-1,3-Dichloropropene	ug/L	50	47.5	95	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	48.7	97	60-140	
Dichlorodifluoromethane	ug/L	50	42.3	85	60-140	
iisopropyl ether	ug/L	50	47.3	95	60-140	
thylbenzene	ug/L	50	46.1	92	60-140	
lexachloro-1,3-butadiene	ug/L	50	47.5	95	60-140	
sopropylbenzene (Cumene)	ug/L	50	45.6	91	60-140	
n&p-Xylene	ug/L	100	91.2	91	60-140	
Methyl-tert-butyl ether	ug/L	50	49.3	99	60-140	
Methylene Chloride	ug/L	50	43.5	87	60-140	
-Butylbenzene	ug/L	50	45.7	91	60-140	
-Propylbenzene	ug/L	50	44.7	89	60-140	
laphthalene	ug/L	50	48.1	96	60-140	
-Xylene	ug/L	50	45.6	91	60-140	
ec-Butylbenzene	ug/L	50	45.1	90	60-140	
Styrene	ug/L	50	48.0	96	60-140	
ert-Butylbenzene	ug/L	50	38.6	77	60-140	
etrachloroethene	ug/L	50	45.5	91	60-140	
oluene	ug/L	50	46.8	94	60-140	
rans-1,2-Dichloroethene	ug/L	50	46.1	92	60-140	
ans-1,3-Dichloropropene	ug/L	50	46.4	93	60-140	
richloroethene	ug/L	50	46.4	93	60-140	
richlorofluoromethane	ug/L	50	46.3	93	60-140	
'inyl chloride	ug/L	50	46.4	93	60-140	
,2-Dichloroethane-d4 (S)	%			98	70-130	
-Bromofluorobenzene (S)	%			102	70-130	
Foluene-d8 (S)	%			100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

MATRIX SPIKE & MATRIX SPIKE	E DUPLICATE: 1657781 MS		1657782								
				MSD							
		284408009	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qua
1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.7	20.6	108	103	60-140	5	
,1,1-Trichloroethane	ug/L	ND	20	20	20.6	21.0	103	105	60-140	2	
1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	20.3	104	101	60-140	2	
1,2-Trichloroethane	ug/L	ND	20	20	20.1	20.2	100	101	60-140	1	
1-Dichloroethane	ug/L	ND	20	20	20.0	20.0	100	100	60-140	0	
1-Dichloroethene	ug/L	ND	20	20	20.1	20.1	100	101	60-140	0	
1-Dichloropropene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1	
2,3-Trichlorobenzene	ug/L	ND	20	20	22.4	21.7	112	108	60-140	3	
2,3-Trichloropropane	ug/L	ND	20	20	22.2	21.5	111	108	60-140	3	
2,4-Trichlorobenzene	ug/L	ND	20	20	21.9	21.7	110	109	60-140	1	
2,4-Trimethylbenzene	ug/L	ND	20	20	21.9	21.2	109	106	60-140	3	
2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.5	20.9	107	104	60-140	3	
2-Dibromoethane (EDB)	ug/L	ND	20	20	21.8	21.3	109	106	60-140	3	
2-Dichlorobenzene	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1	
2-Dichloroethane	ug/L	ND	20	20	18.8	18.8	93	94	60-140	0	
2-Dichloropropane	ug/L	1.7	20	20	21.5	21.8	99	100	60-140	1	
3,5-Trimethylbenzene	ug/L	ND	20	20	21.4	21.0	107	105	60-140	2	
3-Dichlorobenzene	ug/L	ND	20	20	21.5	21.1	107	106	60-140	2	
3-Dichloropropane	ug/L	ND	20	20	20.3	19.6	101	98	60-140	3	
4-Dichlorobenzene	ug/L	ND	20	20	21.4	20.6	107	103	60-140	4	
2-Dichloropropane	ug/L	ND	20	20	20.5	20.9	102	104	60-140	2	
Chlorotoluene	ug/L	ND	20	20	20.8	20.2	104	101	60-140	3	
Chlorotoluene	ug/L	ND	20	20	21.1	20.4	105	102	60-140	4	
enzene	ug/L	ND	20	20	21.3	21.2	107	106	60-140	1	
romobenzene	ug/L	ND	20	20	20.5	19.8	103	99	60-140	4	
romochloromethane	ug/L	ND	20	20	19.8	20.5	99	102	60-140	3	
romodichloromethane	ug/L	ND	20	20	19.8	19.9	99	100	60-140	1	
omoform	ug/L	ND	20	20	18.9	18.6	95	93	60-140	2	
omoromethane	ug/L ug/L	ND	20	20	5.4	6.9	27	34	60-140	24 M1	
arbon tetrachloride	ug/L ug/L	ND	20	20	20.7	20.8	104	104	60-140	0	
hlorobenzene	ug/L ug/L	ND	20	20	20.7	20.8	104	104	60-140		
hloroethane	_	ND	20	20	18.9	20.3 19.4	94	97	60-140	3 3	
nioroetnane hloroform	ug/L	ND				20.2				3 1	
	ug/L	ND ND	20	20	20.0		100	101	60-140 60-140		
hloromethane	ug/L	ND ND	20	20	11.8	11.9	59	60		1 M1	
s-1,2-Dichloroethene	ug/L	ND ND	20	20	19.5	19.7	98	99	60-140	1	
s-1,3-Dichloropropene	ug/L	ND ND	20	20	19.6	19.9	98	99	60-140	1	
bromochloromethane	ug/L		20	20	20.5	20.5	103	103	60-140	0	
bromomethane	ug/L	ND	20	20	20.7	20.4	104	102	60-140	2 4 M4	
chlorodifluoromethane	ug/L	ND	20	20	8.2	8.5	41	43	60-140	4 M1	
isopropyl ether	ug/L	ND	20	20	20.1	20.2	101	101	60-140	0	
hylbenzene	ug/L	ND	20	20	21.0	20.4	105	102	60-140	3	
exachloro-1,3-butadiene	ug/L	ND	20	20	21.8	21.4	109	107	60-140	2	
opropylbenzene (Cumene)	ug/L	ND	20	20	21.0	20.1	105	100	60-140	5	
&p-Xylene	ug/L	ND	40	40	41.5	40.4	104	101	60-140	3	
lethyl-tert-butyl ether	ug/L	ND	20	20	20.7	21.1	104	105	60-140	2	
lethylene Chloride	ug/L	ND	20	20	18.7	18.8	93	93	60-140	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

MATRIX SPIKE & MATRIX SPIR	KE DUPLICAT	81 MS	MSD	1657782	MSD	MS	MSD	% Rec			
	92284408009		Spike	Spike							MS
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	20	20	21.7	20.8	109	104	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.1	20.3	106	101	60-140	4	
Naphthalene	ug/L	ND	20	20	22.7	22.1	113	110	60-140	3	
o-Xylene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
sec-Butylbenzene	ug/L	ND	20	20	21.1	20.8	106	104	60-140	1	
Styrene	ug/L	ND	20	20	21.4	20.5	107	103	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.9	17.3	89	87	60-140	3	
Tetrachloroethene	ug/L	ND	20	20	21.2	20.3	106	101	60-140	4	
Toluene	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.8	20.3	99	102	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.7	19.1	99	96	60-140	3	
Trichloroethene	ug/L	ND	20	20	20.2	20.1	101	101	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	19.4	19.4	97	97	60-140	0	
Vinyl chloride	ug/L	ND	20	20	15.8	16.0	79	80	60-140	1	
1,2-Dichloroethane-d4 (S)	%						97	100	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						98	99	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 02/02/2016 04:35 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLOWERS STORE PROPERTY

Pace Project No.: 92284408

Date: 02/02/2016 04:35 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch		
92284408001	MW-7	SM 6200B	MSV/35395				
92284408002	MW-8	SM 6200B	MSV/35395				
92284408003	MW-3	SM 6200B	MSV/35395				
92284408004	MW-5	SM 6200B	MSV/35397				
92284408005	MW-9	SM 6200B	MSV/35397				
92284408006	MW-10	SM 6200B	SM 6200B MSV/35397				
92284408007	WSW-2	SM 6200B	MSV/35397				
92284408008	WSW-4	SM 6200B	SM 6200B MSV/35397				
92284408009	WSW-5	SM 6200B MSV/35397					

Pace Analytical*

Document Name:

Sample Condition Upon Receipt(SCUR)

Document No.: F-CHR-CS-003-rev.17

Document Revised: 260CT2015 Page 1 of 2

Issuing Authority:
Pace Huntersville Quality Office

Sample Condition Upon Receipt	Client Name:		Project	#: WO:	#:92284408
Courier:	Fed Ex UPS				
Commercial	□red Ex □UPS	☐USPS ☐Other:	Client	92284	
Псопшенски	Place	Other:		922844	408
			-		1
Custody Seal on Coo	oler/Box Present? Yes	⊔No Seals	Intact?	Yes No	i
Packing Material:	Bubble Wrap Bubble I	Bags None [Other:		
59001 52500	T1505	Type of Ice	. Dw	et 🔲 Blue	None Samples on ice, cooling process has begun
Used:		7 : C			
Temp should be abov	Cooler Temp Corrected (° re freezing to 6°C Correction			Biological Tissue	
	(N/A, water sample)	Factor: 0.0 °C	Da	te and initials o	of Person Examining Contents: 1-27-10 KL
Did samples originate i	n a quarantine zone within the Un	ited States: CA, NY, or	SC (check m		d samples originate from a foreign source (internationally,
☐Yes ☐No	If Ves to either question f	ill out a Populated So	il Chacklist		cluding Hawaii and Puerto Rico)? Yes No ith SCUR/COC paperwork.
	ii res to either question, i		II CHECKIST	and include wi	COMMENTS:
Chain of Custody Pres	sent?	□Yes □No	N/A	1.	3
Chain of Custody Fille	ed Out?	□Yes □No		2.	
Chain of Custody Reli	nguished?	□Yes □No	925.27 92	3.	* 1 a
Sampler Name and/o		☐Yes ☐No	DVDV	4.	
Samples Arrived with	□¥es □No		5.	*	
Short Hold Time Ana	lysis (<72 hr)?	☐Yes ☐Ne	11.40-11.00	6.	
Rush Turn Around Tir	me Requested?	☐Yes ☐No		7.	van en "
Sufficient Volume?		□Yes □No	7-2	8.	\$7 - \$3
Correct Containers Us	sed?	☐Yes ☐No		9.	St. Branch and War.
-Pace Containers U	Ised?	□Yes □No	□N/A		AL SOLETING
Containers Intact?		☐Yes ☐No	□N/A	10.	
Filtered Volume Rece	ived for Dissolved Tests?	□Yes □No	□N/A	_11. Note if s	sediment is visible in the dissolved container
Sample Labels Match	COC?	□Yes □No	□N/A	12.	W 1.701
-Includes Date/Tim	ne/ID/Analysis Matrix:)T			
All containers needing checked?	g acid/base preservation have bee		D.	13.	
	g preservation are found to be in	□Yes □No	□n/a		* * *
compliance with EPA	recommendation?				
	NaOH >9 Sulfide, NaOH>12 Cyanio form, TOC, Oil and Grease,	le) 🗌 Yes 🔲 No	□N/A		
DRO/8015 (water) DO		☐Yes ☐No	□N/A	-	5 925 NO. 2
Samples checked for o	dechlorization	☐Yes ☐No	□N/A	_14.	A' surface section
Headspace in VOA Via	ıls (>5-6mm)?	☐Yes ☐No	□N/A	15.	The second secon
Trip Blank Present?		□Yes □No	0000000	16.	The second second
Trip Blank Custody Se		☐Yes ☐No	□N/A		i. do te oritota
Pace Trip Blank Lot # (
	OTIFICATION/RESOLUTION			D-+- /='	Field Data Required?YesNo
Person Contacted:			Date/Time:	The State of Assessing	
Comments/Resolution	л				

Project Manager SCURF Review:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification DEHNR Certification of hold, incorrect preservative, out of temp, incorrect containers).



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Address: 9001 ITEM# 10 9 5 ω N Required Client Information: Requested Due Date/TAT: Email To: Company: ECS 18 361- 991. Raleigh えんらく W5W - 2 Required Client Information Section D 25 5W -とどし (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE JUN - 10 そぞり MW-とどし ingillis @ ocstimital.com Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. SAMPLE ID 1 ADDITIONAL COMMENTS (or (enurable) 2 (avol) may Aur no Soil/Solid Oil Wipe Air Tissue Other Drinking Water Water Waste Water Product Matrix Codes

MATRIX / CODE ORIGINAL Section B

Required Project Information: Project Name: Project Number: Purchase Order No.: Copy To: 20 RELINQUISHED BY / AFFILIATION MATRIX CODE (see valid codes to left) Flowers W++ (m) Stock ans SAMPLE TYPE (G=GRAB C=COMP) Ostephens (decs); wited: com 9 . 57 · bh DATE COMPOSITE 611113 SAMPLER NAME AND SIGNATURE 1226 Store TIME COLLECTED 22 SIGNATURE of SAMPLER: -PRINT Name of SAMPLER: 1-76-15 DATE COMPOSITE END/GRAB 1 work 15:10 13:34 14:215 111:08 13:08 12:41 11:48 52.11 -22-12:15 TIME 2116 DATE SAMPLE TEMP AT COLLECTION Manager: Pace Profile #: Invoice Information Section C Address: Company Name: Reference: Pace Project # OF CONTAINERS ace Quote TIME Unpreserved 2 H₂SO₄ Preservatives HNO₃ HCI 5 NaOH Na₂S₂O₃ ACCEPTED BY AFFICIATION Methanol ; Other King Y/ N . Analysis Test 6200 B E DATE Signed (MM/DD/YY): Requested エンへ Analysis Filtered (Y/N) REGULATORY AGENCY 1-26-18 Site Location 11/12/11/13/11 /UST **NPDES** DATE STATE: 2 TIME RCRA **GROUND WATER** 5 Page: 41 F-ALL-Q-020rev.07, 15-May-2007 Temp in °C Residual Chlorine (Y/N) 38 205661 38 Received on 201 201 80HN820P Pace Project No./ Lab I.D. Ice (Y/N) SAMPLE CONDITIONS 앜 Custody DRINKING WATER OTHER Sealed Cooler (Y/N) 0 Samples Intact (Y/N) Page \$5 of 35

PROJECT SPECIAL PROVISIONS **GEOENVIRONMENTAL**

CONTAMINATED SOIL (7/8/2016)

The Contractor's attention is directed to the fact that soil contaminated with petroleum hydrocarbon compounds exist within the project area. The known areas of contamination are indicated on corresponding plans sheets. Information relating to these contaminated areas, sample locations, and investigation reports are available at the following web address by navigating to the correct letting year and month then selecting, "Plans and Proposals", "R3825B", "GeoEnv Postings":

http://dotw-xfer01.dot.state.nc.us/dsplan/

Petroleum contaminated soil may be encountered during any earthwork activities on the project. The Contractor shall only excavate those soils that the Engineer designates necessary to complete a particular task. The Engineer shall determine if soil is contaminated based on petroleum odors and unusual soil staining. Contaminated soil not required to be excavated is to remain in place and undisturbed. Undisturbed soil shall remain in place, whether contaminated or not. The Contractor shall transport all contaminated soil excavated from the project to a facility licensed to accept contaminated soil.

In the event that the Contractor chooses to stockpile the soil temporarily, the stockpile shall be created within the property boundaries of the source material and in accordance with the Stockpile Containment Detail found in the plans. If the volume of contaminated material exceeds available space on site, the Contractor shall obtain a permit from the NCDENR UST Section's Regional Office for off-site temporary storage. Stockpiling contaminated soil will be incidental to the project. The Contractor shall provide disposal manifests and weigh tickets to the Engineer for review and approval. The Engineer will in turn provide the GeoEnvironmental Section with a copy of the disposal manifests and weigh tickets for their records.

Measurement and Payment:

The quantity of contaminated soil hauled, and disposed of shall be the actual number of tons of material, which has been acceptably transported and weighed with certified scales as documented by disposal manifests and weigh tickets. The quantity of contaminated soil, measured as provided above, shall be paid for at the contract unit price per ton for "Hauling and Disposal of Petroleum Contaminated Soil".

The above price and payment shall be full compensation for all work covered by this section, including, but not limited to loading, transportation, weighing, laboratory testing, disposal, equipment, decontamination of equipment, labor, and personal protective equipment.

Payment shall be made under:

Pav Item

Hauling and Disposal of Petroleum Contaminated Soil

Pav Unit Ton DocuSigned by:

C96492AF5E824DF

7/8/2016